

OUR
20th YEAR

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

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822 Wauona Trail
Portage WI 53901

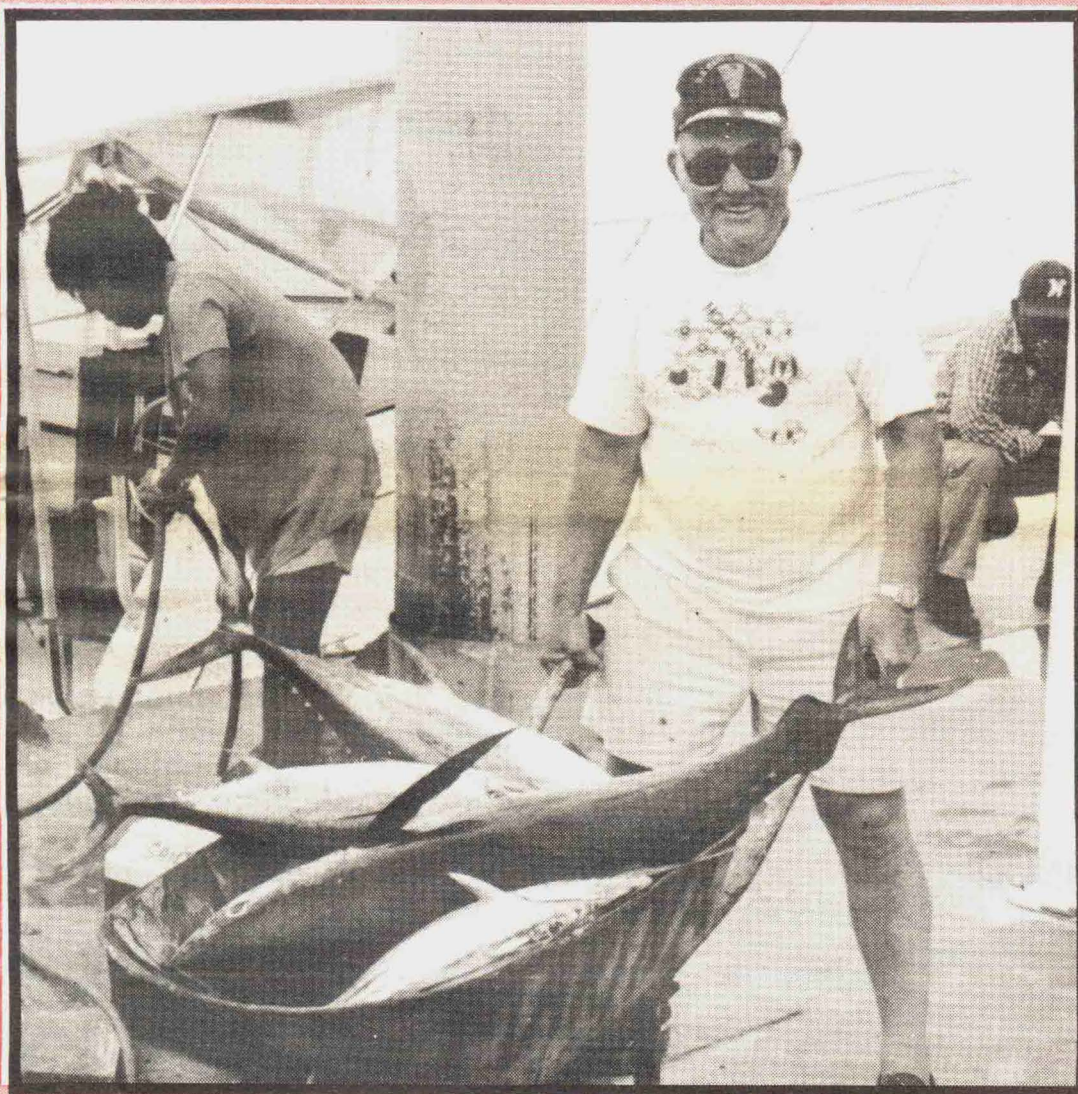
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Diego Garcia: A Great Catch!



Russ Fleming, WB9NYG, did some deep sea fishing while doing relief radio operator duty on ship at Diego Garcia; the largest yellow tail tuna he caught was 60 pounds. He also operated as VQ9RF from Diego Garcia. Read how this all came about in Russ' story, starting on page 14 of this issue. And no, (sorry, but I have to do this), none of these fish will work as an antenna tuna.

No-Code Petitions, Others, Assigned RM Numbers

On September 14, the Federal Communications Commission issued a Public Notice listing filings from the American Radio Relay League (ARRL) and eleven other petitioners for amendment of FCC's Part 97 Rules.

ARRL, along with six other petitioners, filed for the creation of a codeless class of amateur license. Two petitioners filed for a change to the code speed requirements. Two others filed to restructure amateur operator licensing requirements and operating privileges, and one petitioner filed to eliminate all license classes. The ARRL petition was designated RM-6995.

By the time this appears in print, the 30 day deadline for filing comments will have passed.

- Excerpted from The ARRL Letter

Happy Thanksgiving

from

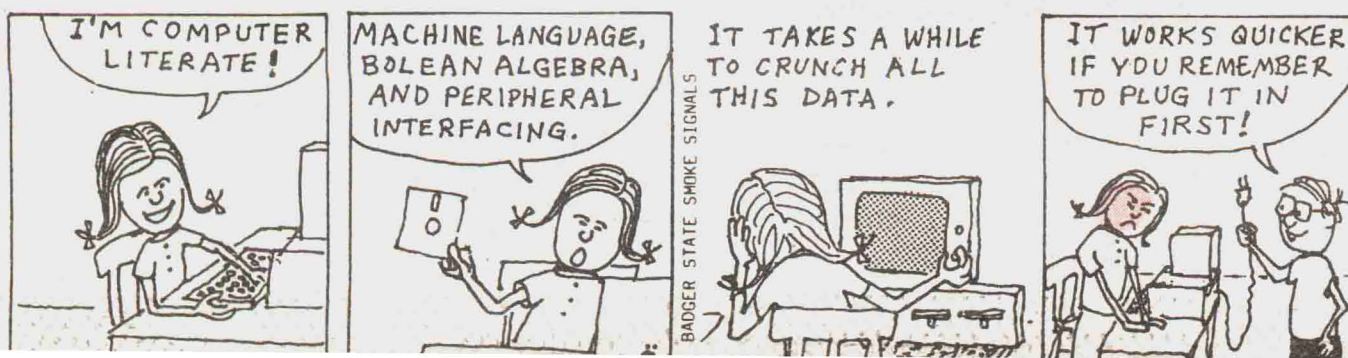
The Badger State Smoke Signals Staff

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ELMER

by Rich Regent, K9GDF



Swapfests and other Social Events

SATURDAY, NOVEMBER 4, 1989. 6.91 Friendly Fest, Serb Hall, 51st St. & Oklahoma, Milwaukee, WI, 8:00 a.m. to 1:00 p.m. (sellers admitted at 7:00 a.m.). Tickets: \$4.00, 4 foot tables: \$5.00. \$1.00 off on each in advance with SASE before Oct. 29. Amateur Exams (see Testpoint). Contact: Milwaukee Repeater Club, P.O. Box 2123, Milwaukee, WI 53201.

SUNDAY, NOVEMBER 12, 1989. Rockford Hamfest 89 & Computer Fair, at Forest Hills Lodge, Junction of Illinois 173 and Forest Hills Road, Rockford IL. 8:00 a.m. to 3:00 p.m. Ground level entry, food & beverages. \$3.00 in advance or \$4.00 at door. For information contact Lonnie Miller (815) 623-7576. SASE for advance tickets to: Rockford Hamfest P.O. Box 10003, Rockford, IL 61131.

SATURDAY, JANUARY 13, 1990. The Original Midwinter Swapfest sponsored by the West Allis Radio Amateurs Club, at the Waukesha Exposition Center, Highways J & FT, Waukesha, Wisconsin. Contact WARAC, P.O. box 1072, Milwaukee, WI 53201

SUNDAY, JANUARY 28, 1990. Wheaton Community Radio Amateurs Hamfest. At the Odeum Exposition Center, Villa Park, IL. \$4.00 advance or \$5.00 at the door. Contact: W.C.R.A., P.O. Box 95L, Wheaton, IL 60189.

SATURDAY, FEBRUARY 24, 1990. The Fox Cities ARC will sponsor HAMFEST 1990 at Sabre Lanes, Menasha, Wisconsin. Contact Don Baker, NB9J, 621 W. 7th St., Kaukauna, WI 54130. (414) 766-3886.

SUNDAY, MARCH 25, 1990. Lamarsfest at Grayslake, IL. Contact Lamars, Box 751, Libertyville, IL 60048.

SUNDAY, APRIL 8, 1990. Madison swapfest sponsored by the Madison Area Repeater Association at the Dane County Expo Center, Forum Building, Madison WI. Contact: MARA, P.O. box 4007, Madison, WI 53711.

SATURDAY, MAY 12, 1990. Lakeshore Hamfest, Manitowoc, WI sponsored by Mancorad Radio Club. Contact: Mancorad Radio Club, P.O. Box 204, Manitowoc, WI 54221-0204.

SATURDAY, JULY 7, 1990. South Milwaukee ARC Swapfest at the American Legion Park, Shepard Ave., Oak Creek, WI. Contact: SMARC, P.O. Box 102, Milwaukee, WI 53172.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)
Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams,

guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 766-3886. Winter banquet: January 13, 1990.

GREATER MILWAUKEE DX ASSOCIATION
Fourth Monday of the month at 7:30 p.m. Contact Jerry Scherckenbach, N9AW, at (414) 481-8831 for meeting location.

GREEN BAY MIKE AND KEY CLUB
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORAINES RADIO AMATEURS
Second Friday, 7:30 p.m. at the Kettle Moraine High School, located near the intersection Hwys 18 & 83 in Wale, WI. Talk-in on 147.39 repeater.

LAKESHORE RPTR. ASSN.
Last Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MANITOWOC COUNTY RADIO AMATEURS
Directors Meeting: First Wednesday.
General meeting: Second Wednesday.
Both meetings held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

NORTHERN WISCONSIN RADIO CLUB
4th Tuesday - 7:30 p.m., Sept. through April. Peppermill Restaurant, Thunderbird Mall North, Menomonie, WI. Guests welcome.

OZAUKEE RADIO CLUB
Second Wednesday - 7:30 p.m. - Saukville Community Center.

QCWA - WISCONSIN CHAPTER #55
For information about QCWA, contact Richard Regent, K9GDF. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162
Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB
Second Monday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

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2 years	(24 issues)	\$16.00
3 years	(36 issues)	\$23.00

ADDRESS CHANGES AND CORRECTIONS should be sent to Kenneth A. Ebnetter, address above.

EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS or INQUIRIES REGARDING DISPLAY ADS may be directed to Harry Westlund or Kenneth Ebnetter, addresses above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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EDITORIAL DISCLAIMER

The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or by any other organization.

RIVERLAND AMATEUR RADIO CLUB

First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB

First Tuesday - 7:30 p.m. CST, 8:00 p.m. CDT - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI. ARES net - 146.64 MHz., Monday 7:30 p.m. CST, 8:30 p.m. CDT. 7277 Khz., Saturday 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC)

MEDFORD

Usually the 2nd Thursday of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARS Net, Wednesday nights at 8:30 PM on 147.75/15. For info call Mike, N9GHZ at (715) 223-3996.

TRI-COUNTY AMATEUR RADIO CLUB

Second Sunday of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WASHINGTON COUNTY AMATEUR RADIO CLUB

Tuesday: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Monday 7:30 p.m.

WATERTOWN AMATEUR RADIO CLUB

First Thursday of the month at 7:00 p.m., Eaton Corp., 901 s. 12th St., Watertown, WI

WEST ALLIS RADIO AMATEUR CLUB

Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: 1989 meeting dates: Wed., Nov. 15, Thu., Dec. 14, 1989. Monday meetings in room 28B of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or making an interclub visit.

The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added or changed since last months BSSS.)

November 1, 1989	Milwaukee WI (MRAC)
November 11, 1989	Menomonee, WI
November 18, 1989	Milwaukee, WI (BE)
<u>December 2, 1989</u>	<u>Madison, WI</u>
December 2, 1989	Stevens Point, WI
December 7, 1989	Milwaukee WI (MRAC)
December 16, 1989	Milwaukee, WI (BE)
<u>January 3, 1990</u>	<u>Madison, WI</u>
<u>February 24, 1990</u>	<u>Madison, WI</u>
<u>April 7, 1990</u>	<u>Madison, WI</u>
Monthly, First Sat.	Racine, WI
Monthly, Last Sat.	Tomahawk, WI
Monthly, Third Sat.	Loves Park, IL
Minnesota tests listed at end of column.	

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC

1989 dates: Nov. 1; Dec. 7

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, North 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly so testing can be completed before 10:00 p.m. Bring your original license and three (3) good photocopies, plus two forms of identification, such as a driver's license, etc. A pen and \$4.75 for the exam fee is also required.

Register in advance on a 15 cent U.S. postal card; print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa,

WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

BADGER EXAMINERS (BE) - MILWAUKEE

1989 examination dates:

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

MENOMONIE, WI (ARRL/VEC)

November 11, 1989.

Sponsored by the Dunn County ARC. Walk-ins only. Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonee, WI. Contact: Dr. Thomas W. King, WF9I, c/o office, 444 S. Broadway, Suite 1, Menomonee, WI 54751. (715) 235-4747 (O), 235-5757 (H).

MADISON WI - ARRL/VEC

December 2, 1989 - January 3 1990 - February 24, 1990 - April 7, 1990 (MARA swapfest)

All exams will be held at Fire Station No. 2, 421 Grand Canyon Dr., with the exception of the April 7 date, which will be announced later.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

Last Saturday of every month.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No pre-registration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and necessary requirements. Send information to K9EN or K9Z2 at the address shown on page 2.

Wisconsin Nets Association Ltd.

WISCONSIN NETS

Net	WNA	Freq.	UTC	CST	Manager
BWN	Yes	3984	1200	0600	KC9CJ
BEN	Yes	3985	1800	1200	WA9W
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	2400	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
6:30 Net	No	01/61	0030	1830	KA9OMC
Gr. Bay	No	72/12	0245	2045	WB9NRK
			Thu.	Wed.	
RACES	No	3993.5	1815	1215	WC9AAG
			USB Tues. and Thurs.		
RACES	No	3993.5	1400	0800	WA9OAY
			LSB Sunday		

Section Manager's

notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221



Season's Greetings.

Exams December 2nd at Stevens Point, Madison, and Racine; December 7th and 16th in Milwaukee; and December 9th at Appleton.

Milwaukee RAC, oldest continuously active active ARRL affiliated club, celebrates 70 years on December 5th. MRAC Christmas Party December 14th at Tanner Paull Restaurant in West Allis; begins at 5:30 p.m.

Ten members of the Rock River RC helped KF9V of Horicon to put up a tower, rotor, beam, and coax cable. KA9FNE and other RRRRC members greatly helped in reporting overturned gasoline truck accident.

New officers of the Wisconsin Nets Association; Chairman WA9W; Sec. KA9-KLZ; Treas. W9CBE.

New officers of QCWA Chapter 55: Chairman W9BTY; V. Chairman W9DU; K9FHI Sec.; AJ9P Treas.

New officers of W/K ARC: Pres. NK9G; Sec./Treas. AE9K.

W9SFK received 50 year ARRL plaque and 55 years licensed QCWA certificate.

K9FHI presented a plaque to K9UTQ at QCWA meeting for his 10 years of excellent volunteer work as STM; current STM KC9CJ snapped some photos as 96 hams and guests applauded.

Traffic handler W9YCV has several traffic tips suitable to print in your club newsletter for s.a.s.e.

Congratulations to newly qualified Official Observer WB9YSG in Delafield.

KA9QLP of Ozaukee RC encourages everyone, especially Novices, to use their

repeater on 224.18 MHz.

Any volunteers for Affiliated Club Coordinator or State Government Liaison? Ask me for job descriptions.

WB9ZRE attended Albuquerque International Balloon Festival, but couldn't reach Wisconsin on two meters while aloft.

KW9W is also a hot-air balloon enthusiast who has unique antenna arrangements.

Watertown ARC has portable generator handy for emergencies.

Sorry to report Silent Keys N9AGH, W9CJN, and W9SFL.

Greater Milwaukee DXA surveyed club members about their meetings to keep interest high; program with best rating was DXpedition videotape; lowest rating was program by ARRL Officials (are they trying to tell me something?).

Thought of the month: If a situation required undivided attention, it will occur simultaneously with a compelling distraction.

GLASS ARM REPORT (Wisconsin Slow Speed Net)

Lee G. Andreas, N9BDL,
Net Manager
Route 1, 7600 Highway D East
Lake Tomahawk, WI 54539-9500

The heat and QRM of summer are gone, the first snows of the season have decorated the antennas and feed lines, and the fall colors are beginning to fade; a sure sign that net activity will pick up. The summer "slump" has been no better or worse than normal. As the nice weather begins to become a memory, more stations are checking into the nets of the Wisconsin Nets Association. Perhaps you should join them.

If you wish to polish your CW traffic handling skills, give the WSSN a try. We meet daily at 6:30 p.m. local time on 3.645 MHz.

Here are some of the friendly fists who inhabit the net. The number in parenthesis after their call is the number of times that they checked into the net during the third quarter of this year: Lee, N9BDL (90); Adrian, KA9FVX (64); Ed, W9NGP (49); Dwight, AG9G (45); Jim, W9-CXY (34); Tommy, KE9RV (28). These six topped the 25 mark with their checkins. Others also heard during the same period, and hopefully again during the remainder of the year, are: Keith, KY9P; Paul, N9-FVN; Larry, WB9ICH; Bob, N9HWP; Chuck, KZ9V; Greg, WA9W; Stacey, WG9J; Denny, K9LGU; Dick, KC9CJ; Everette, WØKYG; and Bob, WC9O. Check in with us a half dozen times and I will include your call in the next quarterly report of the WSSN.

Congratulations go to Tommy, KE9RV, for upgrading. He formerly was KA9YSK. Also, my thanks to Stacey and her Pappy, WG9J and WA9W, for filling in for me on the third Tuesday of the month as NCS

when I'm off to the club meeting, as well as Sunday evenings as regular NCS.

Net statistics for the third quarter are:

Month	QNI	QSP	QTR
July	152	45	440
August	139	36	418
September	121	41	386
Totals	412	122	1244

If any of you have been listening to WSSN over the past few months and have caught any references to Sir Slim, the Knight of the Key, and are wondering

what is going on, please consider those messages our unique way of passing training messages. Nothing gets more boring than standard training messages that ask you to count the number of fingers on your left hand and report the results in standard message format. The WSSN can be accused of many things, but boring is not one of them.

Who or what will replace Sir Slim? Tune into the WSSN and find out.

See you again next year with the Glass Arm Report.

73, Lee, N9BDL, NM

WISCONSIN INTRASTATE NET/EARLY (WIN/E)

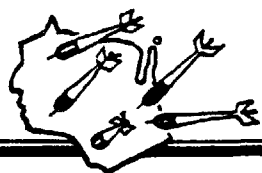
Larry Guthu, WB9ICH, Net Manager
706 West Jennings
New London, WI 54961

Hello to all again. Boy, that time sure does fly by when you're busy.

There is really not much change from the last time I wrote. I was looking over some of the stats from last year compared to this year, and I see that as for checkins we have increased by about 3% over the same period last year, but traffic has gone down just a bit and the time the net runs has remained fairly constant.

One thing I have noticed is that sometimes the traffic which is offered does not get picked up, or people are reluctant to take the traffic, even when it is in their area. I think that this comes from people having a hard time passing the traffic on, whether it be on 2 meters or packet, and I think that is because people who handle traffic are among the minority these days as far as ham radio goes. I would like to urge all who belong to a radio club or who give Novice classes to put in a plug for traffic handling and have them at least try it; they may find they like it.

I think that handling traffic is a very gratifying part of ham radio, and without it ham radio will be the same as our counterpart on 27 MHz, so get in on a net; you'll find plenty of people willing to help you out. You'll also make many new friends. (Please turn to page 16)



HERE and THERE

WELCOME to the pages of Badger State Smoke Signals to the Northern Wisconsin Amateur Radio Club! The NWRC joins several other Wisconsin area clubs in having meeting information published monthly in this paper. The NWRC, which has existed since 1923, is located in the Menomonie, Wisconsin area. The club's current NWRC officers are: Steve, KA9OMC; Vice-President, Rolin, KB9AER; Secretary, Steve, KE9RW; and Treasurer, Jim, NX9F. Again, welcome!

:-----:

CONGRATS to Wisconsin Section Emergency Coordinator Fred Wendt, W9-ZAG, on his recently becoming a grandpa - for the 13th time!

Our condolences, also, to Fred on the recent death of his mother.

:-----:

FCC RELEASES ERRATA LIST IN PART 97 REWRITE: On July 19, the American Radio Relay League submitted a Request for Issuance of Errata List to the FCC in the Part 97 rewrite proceeding. It was submitted to "change the rules which were, in the League's opinion, unintentionally changed; where typographical errors were made; or where errors of omission appeared."

FCC responded with its Errata list, released on September 7. After a review of FCC's corrections list, ARRL Executive Vice President David Sumner, K1ZZ, said in a letter to the League's Directors, "This satisfies some, but not all, of the concerns expressed in our request for the issuance of errata."

Rick Palm, K1CE, Editor of the newly rewritten FCC Rule Book, said that the Errata will be included in the appendix of the Rule Book.

-The ARRL Letter

:-----:

SOLAR CYCLE 22 READY TO PEAK: During September, the solar flux went on a "rollercoaster ride," peaking at 305 twice in three days, then dipping to 155 - but even this was high enough for good propagation on most HF bands. Conditions should

improve during October, with the best days of the fall season expected to arrive in November.

The latest solar and geomagnetic field data is transmitted at 18 minutes past the hour by WWV in Boulder, Colorado. The same information is transmitted by WWVH in Hawaii, at 45 minutes past the hour. The K index is revised every three hours. A K figure of 3 or more indicates poor propagation or even complete loss of communication on high latitude paths. Trans-equatorial propagation is not usually affected, and may even improve under high K conditions.

Even the lowest solar flux readings for the next year or so should be high enough for good work on most HF bands. The next year or so should also provide ample opportunities for DX work on 50 MHz.

-The ARRL Letter

:-----:

W1AW TO EXPLORE OPERATION ON WARC BANDS: W1AW is expected to start experimental bulletin transmissions (CW/-RTTY) shortly on 18.100 and 10.140 MHz. Further information may be published later.

-The ARRL Letter

:-----:

IT'S OFFICIAL: ARRL GOES TO COURT TO CHALLENGE FCC'S 220 MHZ REALLOCATION DECISION: On September 28, ARRL filed a "Petition to Review Agency Order" with the United States Court of Appeals for the District of Columbia Circuit. The petition requests the Court to set aside the FCC reallocation decision in Docket 87-14, and remand the matter to the FCC for rededication.

The petition contains only a brief overview of ARRL's argument that the Commission's action was arbitrary, capricious, an abuse of discretion, and not in accordance with the law; the substance will come later, in the League's statement of issues and pleading.

-The ARRL Letter

:-----:

MICROSATS PASS ENVIRONMENTAL TESTING; MUST WAIT FOR LAUNCH: All four of the AMSAT Microsats (PACSAT, LUSAT, DOVE, and WEBERSAT) completed the necessary environmental tests, that is, thermal vacuum and vibration tests, with

flying colors. This means the Microsats are now certified to fly aboard the Ariane IV launch vehicle.

Official word received on September 29 from Intelsat and Arianespace representatives indicates that launch may be delayed at least four weeks from the original date of November 10 to correct problems with the Ariane IV launch vehicle. The AMSAT launch team will use this time to perform additional system level and software testing on the satellites.

-The ARRL Letter

:-----:

IN A STRING OF MINOR DISASTERS ten days ago or so, this venerable old Radio Shack Model 4 computer went belly up. After a trip to Radio Shack's Service Center in Madison, the computer is working again - with a repair cost of \$140.00 for a new power supply, a new Z-80 microprocessor, and labor. Not having the computer for a week put me 'way behind in preparing text for BSSS, but we're caught up as this is being written.

- K9ZZ

:-----:

EFFECTIVE IMMEDIATELY, the American Radio Relay League will accept contacts made on the 10 MHz WARC band for both its Worked All States and DXCC award programs. This change in League policy comes as the result of agreements reached at the recently concluded Region 2 International Amateur Radio Union (IARU) conference in Orlando, Florida. The League cautions that the shift in policy still precludes the use of 10 MHz for the single band or five band awards. The change brings IARU Region 2 into line with the rest of the IARU-represented world of amateur radio.

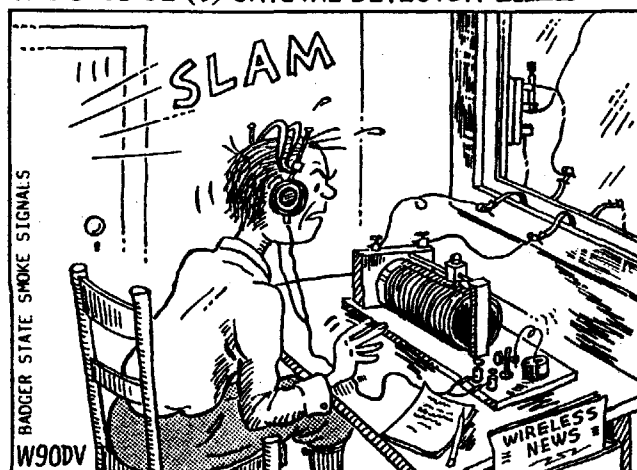
-The Westlink Report

:-----:

RECOVERY CONTINUES from an auto crash for Kurt Silber, KB9MQ, of Ripon; he is on 2 meters from St. Agnes (Hospital) in Fond du Lac, working 147.09 or 146.955. He also has a Sony shortwave receiver, and is using the steel framework above his bed as an antenna. Room 434 has turned into the hospital ham shack, as Kurt continues to pursue his interest in Amateur Radio.

- Foxtales, Green Fox ARC

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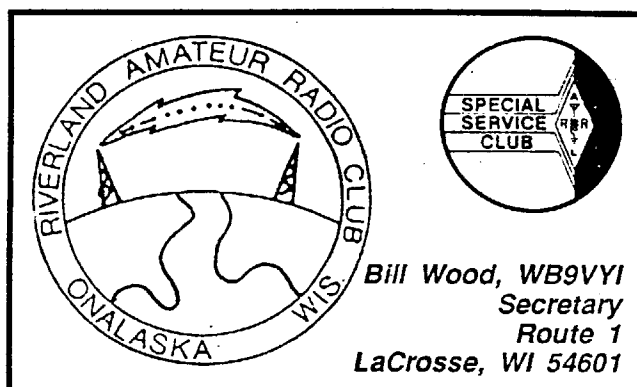
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Bill Wood, WB9VYI
Secretary
Route 1
LaCrosse, WI 54601

Greetings.

The regular monthly meeting of the Riverland Amateur Radio Club was called to order at 7:34 p.m. by our president, Dick Low, on Oct. 3rd, 1989.

The reading of the minutes and treasurer's report were then called for and given. These reports were not available at the last meeting, so the two reports were shared at this time, and with the exception of leaving Dick Konrad, K9DXO, and Charles Ferris, W9TCW, off the members present list for the last meeting, they were approved as read. (Sorry about that, gentlemen.)

Dick called our attention to the lectern and wireless P.A. system that Charlie Burch, KA9UUK, donated to the club, and we thanked him.

Charlie handed out the last two unclaimed badges at the meeting.

George Kroner, KE9PL, is taking orders for jackets. He is still keeping the papers, radio, and television stations informed of our meetings.

Our Christmas party was then brought up. Karl Olberg, W4ST, was suggested for handling the particulars, seeing as how last year's was so successful.

Greg Miller, KA9FOZ, shared the fact that no one has stepped forward to take over as Special Service Club Manager.

Greg also shared some information about the Russian Sister City program. They are looking for more members. We will be receiving about five delegates here in La Crosse, who will stay about ten days. He believes they will be arriving about Oct. 20th, and they will be looking for homes to stay in for two or three days, then move on to the next home. There is also a trip to Russia planned for next summer, with similar plans in mind.

Our attention was brought to the fact of our loss of two friends, Albert Reinholdt, K9FZE, and Knute Knutson, W9SFL. They have both become silent keys this past month. We will miss these two good men.

Charlie made and Greg seconded a motion to sell our newly acquired club patches for the same \$3.00 fee as the last set was sold for. All agreed.

Charlie let us know that there were some members not too pleased with the parliamentary procedure that we have been trying to stick to. The overwhelming majority of the members present felt it was necessary to continue using parliamentary procedure to help prevent possible chaos.

Wid Johnson, W9DM, asked for some assistance with his antenna problem. Several organized an antenna party to meet at his place on the 7th, around 10 a.m.

Craig Goldbeck, N9ETD, felt it would be good for the club to thank Jim Summers, WB9QFC; Van Elston, WA9FIO; Les Jenks, W9AKY; Gary Webb, N19V, and anyone else involved in tracking down our spurious noise source so quickly and efficiently. All agreed, and we thank you, gentlemen, for the job well done.

George Boller, KØDHI, and Dick Linder, WØRIF, came down from Winona, Minn. to share their experiences with their DXpedition to Easter Island back in 1981 for the

program of the evening. They presented an excellent, well-rounded program, full of slides, history, and a recounting of their escapades. Thank you, gentlemen.

MEMBERS AND GUESTS PRESENT

Rick Williams	KV9U
Bob Selbrede	KA9EZR
Tom Gromacki	KB9BIS
Joe Mezera	WA9SOQ
Dick Kleppe	KØKTP
Walt Altus	WD9GCR
Art Osborn	WØJDC
Ernie Gershon	K9ZVU
Tom Speropulos	N9IGS
Phil Uehling	W9UP
Charlie Burch	KA9UUK
Jule Kish	KA9UJL
Ralph Jahimiak	WA9OAE
Bob Anderson	WAØVHO
Paul Schumacher	KØZYV
George Boller	KØDHI
Dick Low	KØJYB
George Kroner	KE9PL
Greg A. Miller	KA9FOZ
Charles A. Ferries	W9TCW
Dan McKenzie	WCØV
Arby Boomer	WF9T
Scott Neader	KA9FOX
Rich Egan	
Wid Johnson	W9DM
Maty Johnson	
Berta Lopaz	
Bill Pike	K9FYZ
Craig Goldbeck	N9ETD
Dallas Miller	K9LEC
Nook Bentzen	K9EGO
Dick Linden	WØRIF
Bill Wood	WB9VYI

Respectfully submitted:
Bill Wood, Sec./Treas., RARC

The Northern Wisconsin Radio Club

—Since 1923—

Steve Kraft, KE9RW
Secretary
Rt. 7, Box 62
Menomonie, WI. 54751

The provisional meeting of the NWRC was called to order at 7:30 p.m., September 26, 1989, in the back room of the Peppermill Restaurant in the Thunderbird Mall, Menomonie.

Results of the election of officers are as follows: President - Steve, KA9OMC; Vice-President - Rolin, KB9AER; Secretary - Steve, KE9RW; Treasurer - Jim, NX9F.

It was decided that monthly meetings will continue to be held on the fourth Tuesday of each month, September through April. Meeting places were discussed, and

KA9OMC said that handicap accessibility is important. Our official club status may eliminate the fee for a room at the Leisure Center. Ernie, WØLUY, stated that a program and fun are very important at a meeting. Our next meeting will be held on Tuesday, October 24, again at the Peppermill in the Thunderbird Mall, Menomonie.

Our area packet radio activity was discussed. A proposed digipeater on Paul, WØAIH's, hill will open up our packet possibilities. Packet would be a good subject for a future meeting program.

Chuck, N9FVA, has offered to have the annual NWRC Field Day at his airport, located at the junction of Highways 12 and 79. Commercial power is available. Hope to see you there!

Steve, NX9Z, proposed that NWRC use the "Badger State Smoke Signals" as a forum for NWRC, and a benefit to membership. He moved that dues should be \$10/yr. with BSSS, and \$5/yr. without it. It was seconded by Jerome, W2GFK, and passed unanimously.

Gene, KA9RSD, moved that our minutes should be in BSSS. Tom, WF9I, seconded it, and it was passed unanimously. Using BSSS as our newsletter will greatly reduce our mailing costs.

The possible NWRC incorporation and insurance was discussed. Incorporation as a non-profit corporation could take two years, and insurance is also necessary. KA9OMC, Steve, made a motion that we become ARRL affiliated, and that we contact Lane, KD9OB, to consult us on incorporation and affiliation. Harry, W9FYI, seconded it, and it was unanimously passed.

Jerry, W2GFK, made a motion to have Roy Bushland, W9GIT, made a NWRC Life Member Emeritus. Jim, WB9YMB, seconded the motion, and the vote passed in favor.

The meeting was adjourned at 8:30 p.m.

Steve Kraft, KE9RW,

Secretary

Amateur Radio Stands the Test from Hurricane Hugo

After almost a week of laying waste to the Caribbean, Hurricane Hugo, packing winds in excess of 135 miles per hour, slammed into the east coast of the United States. The hurricane passed through Charleston, and flooding was extensive because a tidal surge 12 to 17 feet high coincided with high tide. At least eleven deaths were reported in South Carolina, and two in North Carolina. Earlier, 26 people died as the storm surged across the Caribbean. Both Puerto Rico and the U.S. Virgin Islands were declared federal disaster areas.

As might be expected in a storm of this magnitude, traditional means of communications succumbed early on to the storm's fury. Normally, Amateur Radio's part in such a disaster is that of being the messenger, but this time it became an integral part of the story.

Before Hugo struck, the American Radio Relay League (ARRL) was in contact with several agencies, reminding them of our availability. On Saturday, September 16th, the International Assistance and Traffic Net was activated on 14.303 MHz and, before the storm struck, a number of stations representing government authorities in the Caribbean checked in. The net operated quite smoothly, concentrating on official traffic, damage reports, and traffic originating in the affected area, while funneling welfare inquiries elsewhere, including to packet. Despite the severe damage to the U.S. Virgin Islands and Puerto Rico, quite a number of stations were on the air soon after the storm passed, and some were able to handle welfare inquiries for their immediate areas, though other traffic had priority. Several bands were used, including ten meters.

On Monday afternoon, the operators at W1AW found themselves shifting from the monitor mode to active participation in a Spanish-speaking net of Puerto Rican stations on 28.450 MHz, where damage assessment reports were being collected. A representative of La Casa de Puerto Rico in Hartford happened to be at the station translating damage reports for local media representatives when the net requested assistance.

The International Amateur Radio Net (IARN) assisted in three specific areas. First, it helped with emergency logistical traffic for organizations like the Red Cross and government agencies. Next, it fed the news media, while third, it handled health and welfare inquiries. It requested and received \$7.5 million in immediate aid from the joint European economic community. IARN members from Australia, England, Germany, and throughout the U.S., took on net control responsibilities at one time or another, providing 24 hour a day coverage on 14.275 MHz.

On September 19th, Bill Brunson, KA0-

SEP, happened to be listening to a Hurricane Hugo-related net, when there was a call for assistance in handling a piece of traffic: a message from President George Bush. Brunson says he was asked if he could search 20 meters and find a station on from Puerto Rico. Finding one on 14.320 MHz, he moved the station to 14.325. Unfortunately, the Puerto Rican operator's English wasn't adequate. This is where KA0SEP's multi-lingual talents came in. Since Brunson spoke Spanish, he relayed the message, while simultaneously translating it. The message dealt with disaster and damage reports, along with word on the authorization by the president of some military aid. KA0SEP was asked to remain on frequency until confirmation of delivery of the message was in hand. That confirmation included word that the governor was going to attempt to call President Bush at the White House, as the phone lines to the U.S. mainland had just been reopened.

A first strike Amateur Radio "jump team" from Dayton, Ohio, was sent to the Caribbean by the Red Cross. On September 18th, at about 10 p.m., Mike Riley, KX1B, a former ARRL staffer now employed by the American Red Cross, asked if the Dayton Amateur Radio Association could respond to relief efforts in relation to Hurricane Hugo. DARA was given just about an hour to provide him with up to three names of Hams who would be ready to drop everything and take their home stations, antennas and generators to the stricken area. The next morning, preparations were made by the Dayton area Red Cross Chapter disaster chairman to transport Dave Morris, K8EEK, and Robert Recknor, W8-IQJ, and their gear, to Philadelphia. They were then transported by military aircraft into the devastated area, each giving a commitment to stay for up to three weeks.

Boyd Bradshaw, KB4GDN, said that more than a dozen Amateurs were called to man the Birmingham Amateur Radio Emergency Service (ARES) station, some operators taking calls from worried citizens. Amateurs were even asked to pass health and welfare messages for the families of military people. He called the response of local Amateurs in Birmingham "excellent" in pulling together to help others.

In these instances where disasters strike in predominantly non-English speaking parts of the world - especially in the Caribbean, Latin America and South America - you will find no more dedicated a group of Amateur Radio operators than the Miami-based Sociedad Internacional de Radio Aficionados, better known as SIRA. Since the early 1970s, SIRA, with its team of bi-lingual volunteer Amateur Radio operators, has provided aid and assistance in some of the worst disasters buffeting the region, including earthquakes and

storms, and even during the Cuban Boat Lift. SIRA, operating on 14.153 MHz, was handling bulletins every three hours from the National Hurricane Center in Coral Gables. The net worked 24 hours a day from Sunday, the 24th, with over 500 checkins. The main thing accomplished was alerting the Caribbean islands to the storm, translating all the bulletins to Spanish. It was also to alert five vessels that were headed straight toward Hugo.

In their attempts to get news from the storm-ravaged region, some radio and television stations have been misusing the Amateur bands once again, just as they did during the Mexico City earthquake a few years ago. The question now appears to be not if this illegal activity can be stopped, but whether it should be authorized. There's no easy answer to this and, to complicate things further, individual members of the media have become so dependent on Amateur Radio in crises like Hugo, that their first call is to those on their local Ham contact list. And, let's face it, there are as many Hams who are eager to be in the public spotlight as there are reporters who interview and otherwise use them. On the other hand, several very capable Amateurs, such as Roy Neal (K6-DUE), Glenn Baxter (K1MAN), and Gordon West (WB6NOA), were able to present what Amateur Radio was doing in such a way that they captivated viewers and listeners, while supplying the often needed local tie-in. Maybe it is time to take advantage of the developing relationship between the media and Amateur Radio, and liberalize the rules on broadcast/Ham interfacing even further.

This report was compiled from articles, bulletins, and information submitted by the following: K1ZZ, K1MAN, KC0HF, W8ILC, WA4ZZG, K6DUE, and several others.

- The Westlink Report

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Eau Claire Amateur Radio Club

Bob Fallis, W9BAR,
Secretary
1851 McKinley Road
Eau Claire, WI 54703

The next meeting of the Eau Claire Amateur Radio Club will be held on November 14th at 7:30 p.m. in the Parks and Recreation Building, 1400 First Avenue.

Packet program: Kent Helman, W9LZQ, who is Emergency Coordinator for La Crosse County, and who provides the RiverLAN Packet Association PBBS, will present the program on packet and digipeating.

MINUTES OF THE OCTOBER MEETING

The start of the business meeting was delayed. We decided to have our program before the meeting. President Jerry Marx introduced Mary Lou Brown, NM7N, and Mary Ketzer, KA0OMX, who gave a nice presentation of their DXpedition to Fiji and Wallis Islands. Many thanks, girls.

The business meeting started at 9 o'clock. Bill Jablonske, W9NNS, reported on the July Hamfest. The 1990 event will be held July 14th at the same location. A committee of Don Alm, K9UXP; Bill Jablonske, W9NNS, and Jerry Marx, NG9A, will coordinate the proceedings.

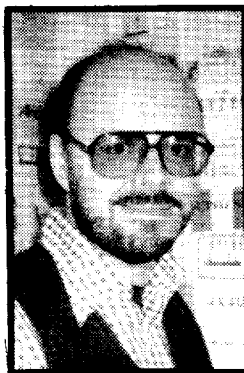
A motion was passed that we sponsor a digipeater in the Eau Claire area. Paul Bittner, W0AIH, has given us permission to use one of his towers. This antenna location will give us an antenna location 500 feet above average terrain. We allotted funds for the purchase of equipment and to cover installation costs. No target date has been set for completion, but it is hoped that we can get it operational this fall. Our program for November will be on packet; since our club has decided to sponsor a packet digipeater, we should all get more acquainted with this type of communications. Hope to see you there.

We will hold nominations for officers for 1990 at the November meeting. The following slate of candidates for officers will be presented:

President: Bill Jablonske, W9NNS
Vice-President: Jerry Marx, NG9A
Secretary: Carl Searing, W9NW
Treasurer: Don Alm, K9UXP

Additional nominations will be asked for at the time of the meeting. Let's all make the meeting, and get involved with electing officers and with the operation of our club.

Our elections will be held at the December meeting. This year, the Christmas party will be held the same night as the meeting. December's meeting will be on December 12th, at the American Legion Clubhouse on Water Street. More details on



John's Junk Box

By John W. Frank, WB9TQG
P. O. Box 5113
Madison, WI 53705

VEHICULAR POLARITY CHECKING GIZMO

This gizmo is so handy I wish I had thought of it fourteen years ago. Even though almost all vehicles now on the market are negative ground, not all cigarette lighter sockets are wired that way. Since many dashboards are plastic, auto manufacturers can no longer rely on the metal of the dashboard for a ground. Some vehicles use a plug on the wiring harness to mate with the back of the cigarette lighter. As a result, most vehicles have the center of the cigarette lighter positive, and the shell negative. However, the possibility exists that some lighters are wired with the opposite polarity.

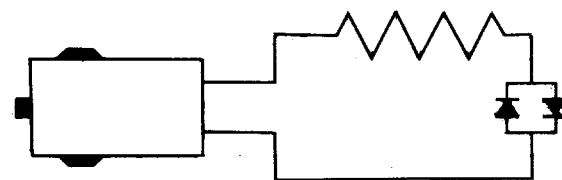
Some auto accessories are not polarity sensitive, spotlights and map lights, for example. Other accessories, such as ham or CB transceivers, plugged into the cigarette lighter for temporary power, could blow a fuse or be damaged by improper polarity. The purpose of this gizmo is to determine the polarity of the cigarette lighter in a vehicle. Once the polarity is determined, you needn't worry that it will change. But, if you are the kind of driver who uses different vehicles, and sometimes rents or

the Christmas party next month.

We are planning a visit to Video Monitors for our January meeting. Keep that date open.

All persons using the phone patches on our repeaters are reminded that they must use proper procedure, and identify themselves. If you are in doubt of the proper

SCHEMATIC DIAGRAM



PARTS LIST

Dual color LED	R.S. 276-012
Lighter plug	R.S. 274-331
1.3K 1/8 watt resistor	Junkbox
R.S. numbers refer to Radio Shack catalog numbers.	

borrows cars, it is a good idea to check the polarity of the cigarette lighter before plugging something into it.

The gizmo is based on a dual-color light-emitting diode (LED) that lights up either red or green, depending on the polarity of the applied voltage. I wired mine so that the LED is green when the center pin of the cigarette lighter is positive. If I ever check a lighter and the LED lights up red, I will know the polarity is reversed (shell is positive).

This gizmo has only three parts; see the diagram for parts information.

The resistor I used came from my junkbox, and provided adequate brightness for the LED. A 1K resistor provides greater brightness; 1.5K less brightness. Do NOT omit this resistor; it limits current flow through the LED.

73,

John

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procedure, contact one of the custodians and they will advise you. The patches and repeaters are open to all, but you must follow the rules.

Lunch Committee for November: W9ZZI and KB9R. Motion to adjourn at 10:15.

- Respectfully submitted:
Bob Fallis, W9BAR, Secretary

Your Help is Needed

In helping victims of Hurricane Hugo, the American Red Cross' Disaster Relief Fund was emptied. And that was before Hurricane Jerry hit Texas, and before the earthquake in San Francisco! Please help the Red Cross to help the thousands and thousands of victims who have nowhere else to turn. Individual contributions help. And, how about passing the hat at your next club meeting? Contributions are tax deductible, and may be sent to American Red Cross Disaster Relief Fund, P.O. Box 37243, Washington, DC 20013. - K9ZZ

The Communicator

News of Greater Taylor County Area Amateur Radio Events and Activities

Mike Schoenfuss, N9GHZ, Editor, P.O. Box 401, Abbotsford, WI 54405 • Phone (715) 223-3996

MONTHLY MEETING - TAYLOR COUNTY AREA AMATEUR RADIO CLUB

Thursday, November 9. Location: Emergency Government meeting room, basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, Wisconsin. The meeting starts at 7 p.m.

Agenda and program for November meeting: Amateur radio communications for the upcoming annual Abbotsford Christmas Parade will likely be discussed. A videotape on amateur television will be shown, if time permits.

CLUB NEWS

Attendance at the October meeting was as follows: W9LEE, KA9WDX, KB9BLV, KE9LX, WD9FWP, WD9ASX, and N9GHZ.

The treasurer's report indicated that there was no change in the balance in the treasury from the previous month.

N9GHZ reported giving a talk on amateur radio to a small group of Abbotsford Jaycees on Oct. 10th. The talk included a demonstration of packet radio and 2-meter repeater operations utilizing a hand-held, as well as a videotape of slow scan TV pictures from the space shuttle Challenger.

There was some discussion of offering another Novice license course in the near future. N9GHZ will contact the Northcentral Technical College campus in Medford to see about offering a course sometime early in 1990.

Several members of the club will participate in the annual Jamboree-on-the-Air (JOTA) activities the weekend of Oct. 21 and 22. WA9ZCO will be working with the Dorchester Girl Scouts, and N9IFA will be working with the Lublin Boy Scouts. KE9LX will attempt to contact the Medford Scout Troop. N9GHZ sent for special bro-

chures and participation certificates to be used by those involved.

Following adjournment of the meeting, two Wisconsin Bell Telephone Company videos, entitled "Lightwave" and "Micro-world", were shown.

TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE NEWS

From Mike Schoenfuss, N9GHZ,
Taylor/Clark County ARES
Emergency Coordinator

Don't forget to try to check into the weekly ARES net, held Wednesdays at 8:30 p.m. on the Medford repeater (147.75-/147.15). You're also encouraged to volunteer for net control duty for the net.

Mark your calendars now for the annual Abbotsford Christmas Parade, to be held the evening of Saturday, December 2nd, and try to keep that date open. Once again this year, we will be providing amateur radio communications for the parade. More information will be forthcoming in the coming month ahead, and I will be contacting individuals to determine their ability to help.

147.75/15 MEDFORD REPEATER (W9QHI/R)

The Cushcraft Ringo Ranger, our old repeater antenna, has been sold for \$25.00 to a ham radio operator from Milwaukee, a friend of WA9ZCO. The antenna has been delivered and the payment already received.

The repeater appears to be getting hung up (i.e. transmitter stays on) and not coming down until the timeout timer resets, when it is brought up and used. The colder weather was brought up as one possible cause. There is no heat in the shed

housing the repeater at this time. W9LEE will be doing some further work on it in the near future.

N9GEN, an employee of Weather Shield Manufacturing in Medford, reported that the company uses special ovens for curing doors, that uses some kind of radio waves or microwaves for quick-drying glued materials. They're used throughout the day on both 1st and 2nd shifts, and run for about 4 minutes at a time. There are ovens located in their facilities on both Whelen Avenue on the south side of town, and on Highway 13 on the north side of town. Hurd Millwork Co. in Medford also makes use of such ovens. They were discussed as a possible cause of the RFI problems to the 147.15 repeater.

144.67/145.27 DORCHESTER REPEATER (WA9ZCO/R)

A reminder to all that the RAIN Dial-Up Service weekly amateur radio news bulletin can be heard on this repeater every Wednesday evening at 8 p.m.

N9GHZ-1 (WIMED) PACKET RADIO NODE

The node went on the air, for the first time, the evening of Oct. 12. It is presently operating with the receiver preamplifier on but the RF amplifier off, and using only a mobile magnetic mount antenna. It is temporarily located at WA9ZCO's residence in Dorchester. As soon as the SWR can be checked, the amplifier will be turned on and it will be put on a little better antenna. After it is apparent that everything is operating correctly, the node cabinet will be moved to its permanent home at Midway Telephone Co. in Medford. The node has only one port at this time, on 145.01 MHz.

League Asks Experimental Licenses Below 220 MHz

The American Radio Relay League has asked the Federal Communications Commission to authorize fifty experimental station licenses for operation from 216.0 to 216.85 MHz and 217.15 to 222 MHz, using all conventional emission types. It has also requested that 217.15 - 222 MHz be designated for the use of AXX, GXX, JXX, and FXX emission modes. These latter are forms of spread spectrum used for voice and data from between 1.2 and 56 Kb/s.

At the time that it reaffirmed its decision to reallocate 220 - 222 MHz to land mobile operations, the Commissioners invited the ARRL and the amateur community to petition for secondary access to the spectrum from 216 to 220 MHz. It is believed that the

(League's) request for these experimental licenses is to provide data for that petition while, at the same time, testing the FCC on the sincerity of the offer. That is, if the Commission is sincere, then there should be no reason for it to deny the permits for the test stations. It is also expected that the ARRL would use this same data to refute claims or protests from broadcasters who are fearful of heavier occupation of the nearby spectrum by hams and the interference that this operation might generate.

- Federal Communications TechNews, others, in The Westlink Report

Correspondence

From Our Readers

LIGHTNING ZAPS HAWK HILL REPEATER

October 2, 1989

Dear Jim:

I'm sure you, by now, have heard that the Hawk Hill Repeater (near Lodi; 147.825/147.225 MHz) took a direct lightning strike on August 31, 1989. It is now back on the air, and I thought you and the other fellows might find my experience interesting. I have put it into three sections:

The Lightning Strike

Lightning hit the mast and antenna on top of the hill at the small repeater building, damaging the following items:

1. Destroyed the repeater antenna.
2. Destroyed the feedline.
3. Destroyed the repeater.
4. Destroyed the 120 volt entrance switches and blew outlets out of their boxes. I had to rewire all 120 volt circuits.
5. Destroyed one of the two power lines to the repeater site.
6. Exploded one of the two car batteries which power the repeater, driving pieces of the case into the ceiling, where they remain as a reminder.
7. Destroyed the four-conductor telephone line to the repeater.
8. Destroyed many coax fittings.
9. Damaged the duplexers. WA9ACI was able to revive them.
10. Damaged my two-line telephone.
11. Damaged my fax machine.
12. Damaged two telephone modems attached to my computers.
13. Took bark off of trees near the tower.
14. Damaged two "smart" battery chargers which keep the batteries at full charge.

There was a lot of minor damage, which I won't attempt to list here.

The New Repeater

Chuck Forester, WA9ACI, assessed the damage, and he, along with Cliff Lawson, W9ZI, and I, were able to get the system

up and running within two weeks. The new repeater has several features which may be of interest to the Hams who may want to use the machine. They are listed as follows:

1. It is an open repeater. All Amateurs are free to use it.
2. It has tone access, which will be used only when Chicago (or others) interfere. The tone is 123 Hz. Normally, you can access the repeater with your carrier only.
3. I am going to try to provide an open autopatch for all Hams. If the autopatch is misused, I will put it on a special code and make the code available to only a select few. At present, the autopatch can be brought up by pressing the * key on your mike. To drop the patch, just press the # key on your mike. The autopatch has a restrictor; long distance calls can NOT be made. It WILL respond to the 911 emergency number, however.
4. Many features can be modified by Touch Tone™ codes. If you have ideas for improving the machine, I would be pleased to hear from you.

Protection for the Future

Since I had not adequately protected the machine from lightning prior to the strike, I am now adding the following features, which will tend to minimize the effects of future hits and near misses (I hope):

1. I have driven ground rods at all four corners of the small repeater building and tied them all together with braid.
2. I have run braid from the top of the mast to the bottom of the tower.
3. I have tied the tower and the four ground rods together.
4. The damaged cables running down the hill have all been grounded to give ground to the other wires running down the hill.
5. I have installed surge protectors on all power lines entering into the small repeater building.
6. I have installed a gas discharge tube on the antenna feed line as it enters the building.
7. I have run braid (from the four ground rods) into the building from opposite sides of the building.
8. I have completely encircled the inside of the building with a run of braid, and connected all metal objects to this grounded braid.

9. Each telephone wire now has a gas discharge tube and grounding resistor attached.

10. All wires have surge protectors or gas discharge tubes on the ends located at the bottom of the hill.

11. My satellite dishes (used to receive weather pictures) and my TVRO are all grounded, and braid is run into the house.

12. All heat ducts (including the solar air ducts) are all bonded together, along with the water heaters.

13. I had previously tied all of my Ham antennae together and tied them to the copper plumbing in the house and to the well and power company ground. I had also taken precautions with my 800' long wire antenna.

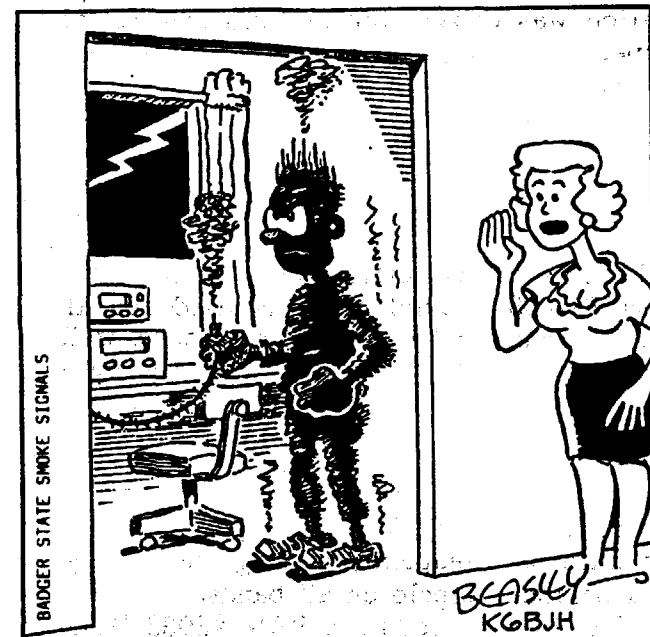
13. Everything metallic is bonded together.

That's the explanation of the lightning strike, the damage it caused, how I fixed it, with the kind help of Chuck Forester, WA9ACI, and Cliff Lawson, W9ZI, and a description of Chuck's recommendations for guarding against future losses of this kind. This was a real experience and, as is the case in all of my life, a learning experience which has benefitted me, to say the least. I hope it will serve to help others, too.

Kindest personal regards,

Stu Gurske, K9EYY

7240 Highway Y, Lodi, WI 53555



DEAR, DID YOU REMEMBER TO DISCONNECT YOUR ANTENNA BEFORE THE ELECTRICAL STORM?

How's Wisconsin Doin'?

Did you ever wonder how many League members there are in Wisconsin? I decided to ask Dave Sumner, K1ZZ, of the ARRL, when he was in Milwaukee recently. A few days later, I got a memo in the mail that gave the number of ARRL members for all three states in the 9th region, the same geographical boundaries as the ARRL Central Division, which consists of Wisconsin, Illinois, and Indiana.

By figuring in the current number of licensed amateurs from the North American Listings 1989 Radio Amateur Callbook, there was a pleasant surprise: Wisconsin has the highest percentage of ARRL members, despite having the least number of amateurs for the three states. Here's the results:

State	ARRL Members	Licensed Amateurs	Percentage of ARRL members per licensed amateurs
Wisconsin	2,516	7,139	35.2%
Indiana	3,418	10,673	32.0%
Illinois	6,267	18,531	33.8%
			100.0%

Thanks for the League support, Wisconsin. Keep up the loyalty.

- Richard Regent, K9GDF, Section Manager.
5003 South 26th St., Milwaukee, WI 53221

The K9YHO 80-40-20-10 "Apartment Dweller" Antenna

By Harvard D. Hamer, K9YHO
1109 12th Street, Apt. 6
Baraboo, WI 53913

After moving into a second story apartment, where no outside antennas are allowed, and where the attic was not accessible, I spent a year thinking about ways to build an efficient antenna for indoor use. The final result provides surprisingly good performance, while occupying relatively little indoor space.

I did not try any window-ledge-type antennas, because of the lack of an effective counterpoise or a good RF ground.

I began experimenting with an indoor antenna. The master bedroom had the most available clear wall space, so, having an understanding wife, I started hanging wires on the outside wall. (There is apparently no foil insulation in the walls; if so, this project would probably have been "foiled" from the beginning, since the foil would have acted as a shield).

A shortened, balanced dipole in a "V" configuration seemed to offer the most efficiency, while occupying a reasonably small area. I began by stringing 40 feet of RG-8X coax from the ham shack to the center of the bedroom wall. The V configuration was chosen for two reasons: (1) to (hopefully) make it less directional, and (2) to make changing bands easier, since the coils are lower and easier to reach.

The first version of the antenna employed switches to change bands and divorce unused elements. However, the switches were changed to banana plugs and jacks for better efficiency. Shield braid from RG-58 coaxial cable is used for all flexible leads and interconnections, as well as for the 8-foot extensions along the ceiling. The finished antenna looks somewhat like a ram's horn.

A low-pass filter is used at the output of the transmitter, but no tuner or RF ground is needed. A 1:1 balun is used at the antenna feedpoint, making the antenna a balanced dipole on all bands.

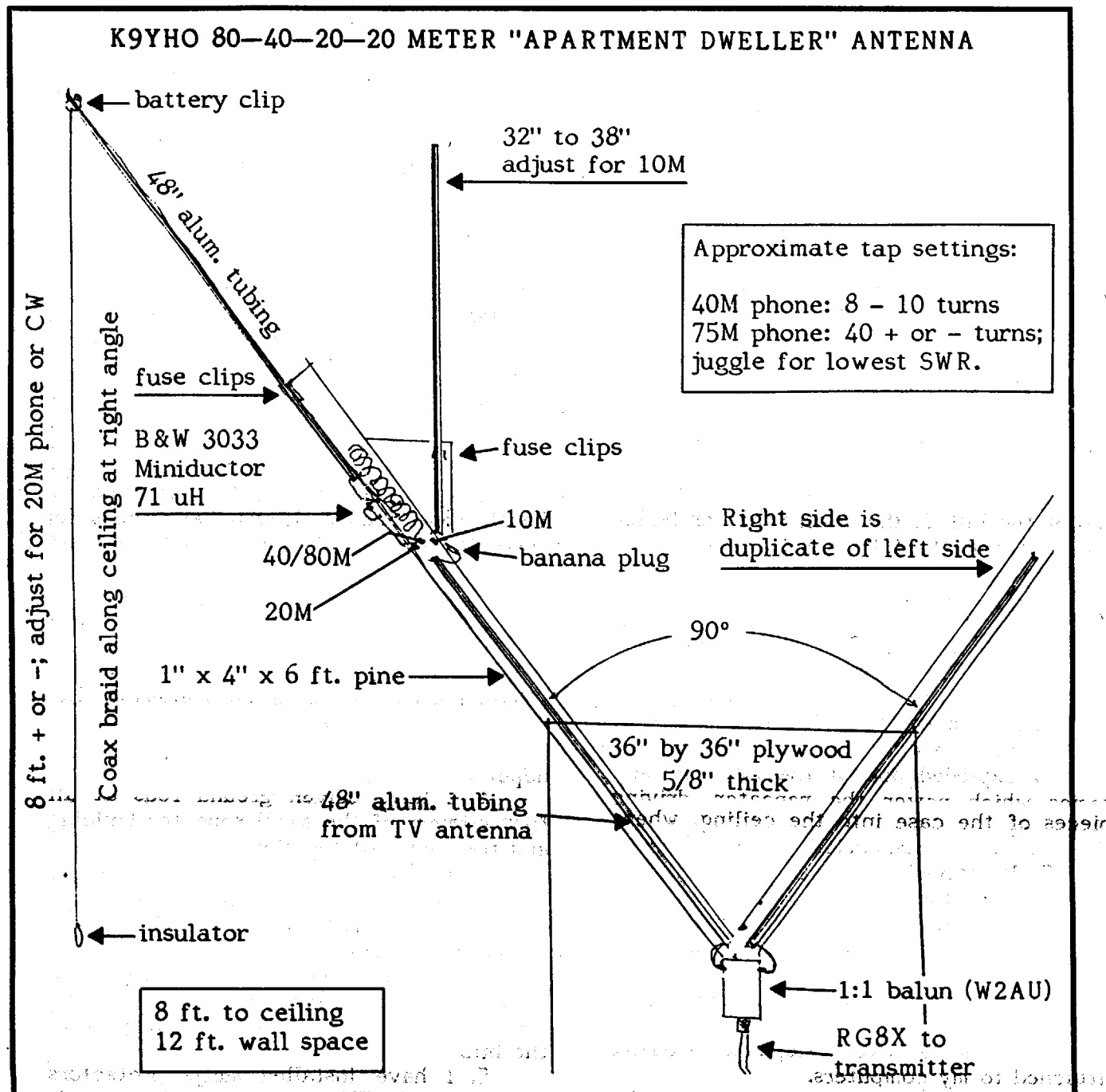
The loading coils are B&W #3033 Miniductors (71 uH). The connections to the taps on the coils are made with Mueller micro-clips.

Other construction details are left to the builder.

Tune-up is accomplished in the following manner:

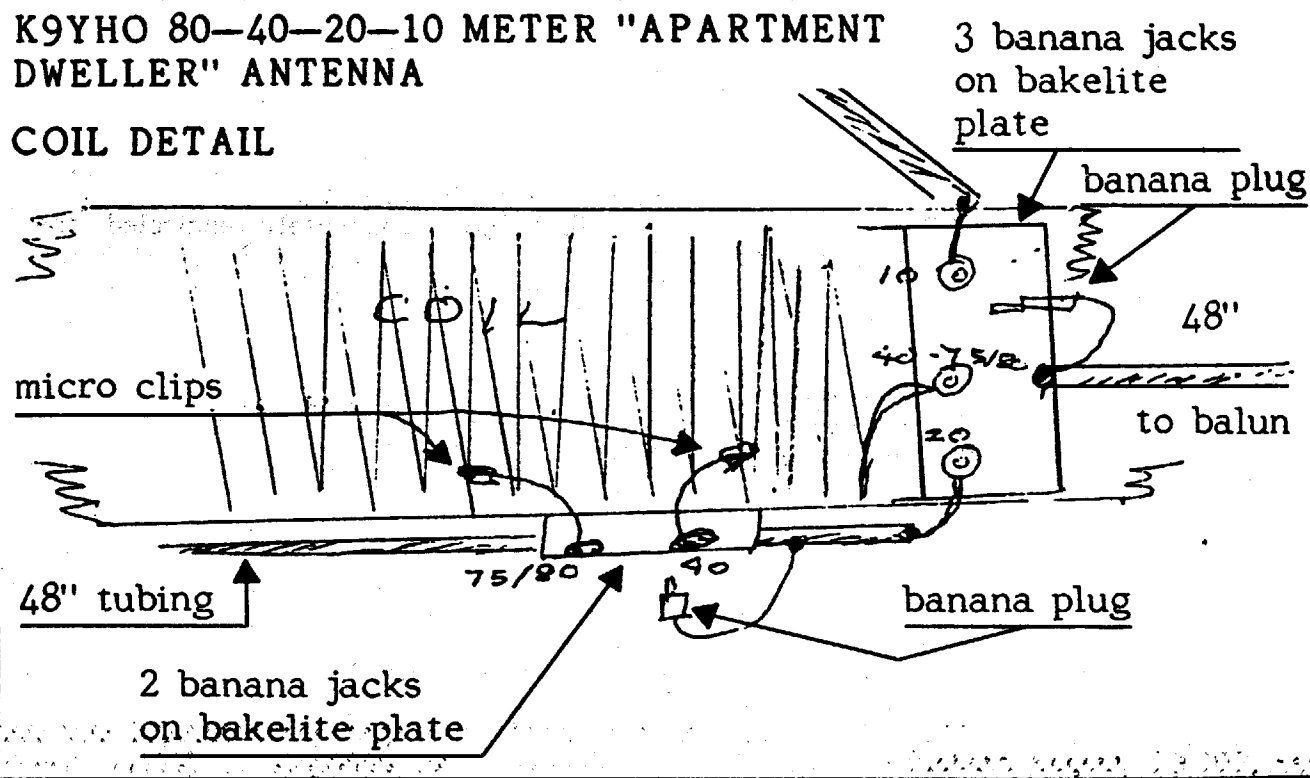
Begin adjustments on 10 meters. Adjust the lengths of the vertical stubs for lowest SWR in the part of the 10 meter band where you usually operate. The SWR on my antenna came down to less than 1.5:1 from 28.5 to 29 MHz.

15 meter operation can be had by using the approximate settings for 40 meters; this provides $3/4$ wavelength on each side of the antenna.



K9YHO 80-40-20-10 METER "APARTMENT DWELLER" ANTENNA

COIL DETAIL



Next, unplug the connections from the loading coils. Adjust the 8-foot braids for the lowest SWR in the portion of 20 meters you prefer (in my case, 14.250 to 14.350 MHz).

To adjust the antenna for 40 meters, connect the plug to the end of the loading coil, and adjust the 40-meter taps for lowest SWR in your favorite segment of the band. The tap should be at about 8 to 10 turns. I set the antenna for 7.2 to 7.3 MHz, and the SWR was less than 1.3:1.

The bandwidth on 75 meters is about 70 KHz, and the tap will be somewhere around 40 turns. Of course, you may tap the coils at several points for different operating frequencies on 75 and 80 meters. A strip of tape on the coils lets you mark settings so you can change frequencies quickly.

A WORD OF CAUTION: When in operation, there are some high RF voltages present on any antenna while transmitting. Locate the antenna where it cannot be touched!

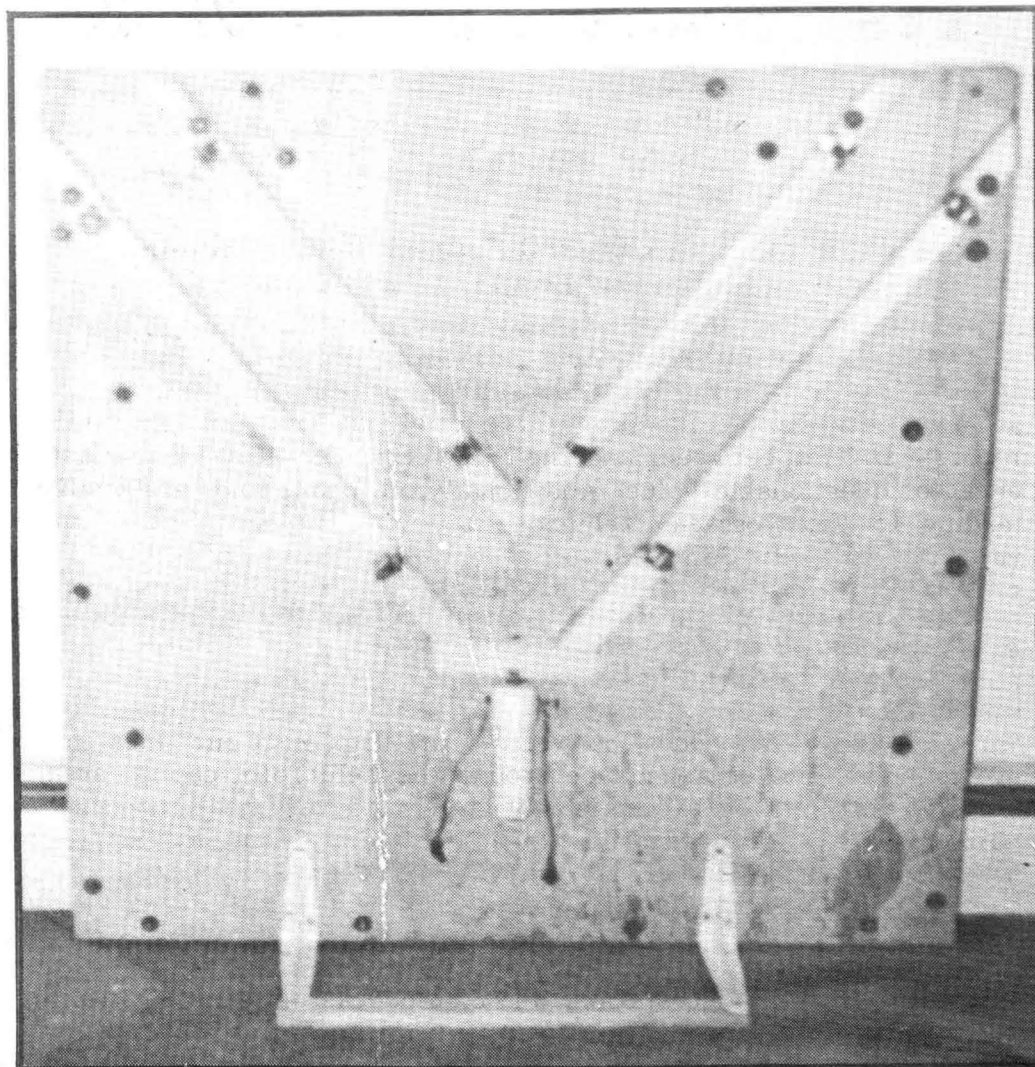
I made my antenna so that I could disassemble it easily, and store it under the bed when company comes. The 3-foot square base has strips and storm window catches to hold the arms in place, and the tubing is held in place in modified 3AG fuse clips.

This antenna does not cover the WARC bands, but it could be adapted to do so.

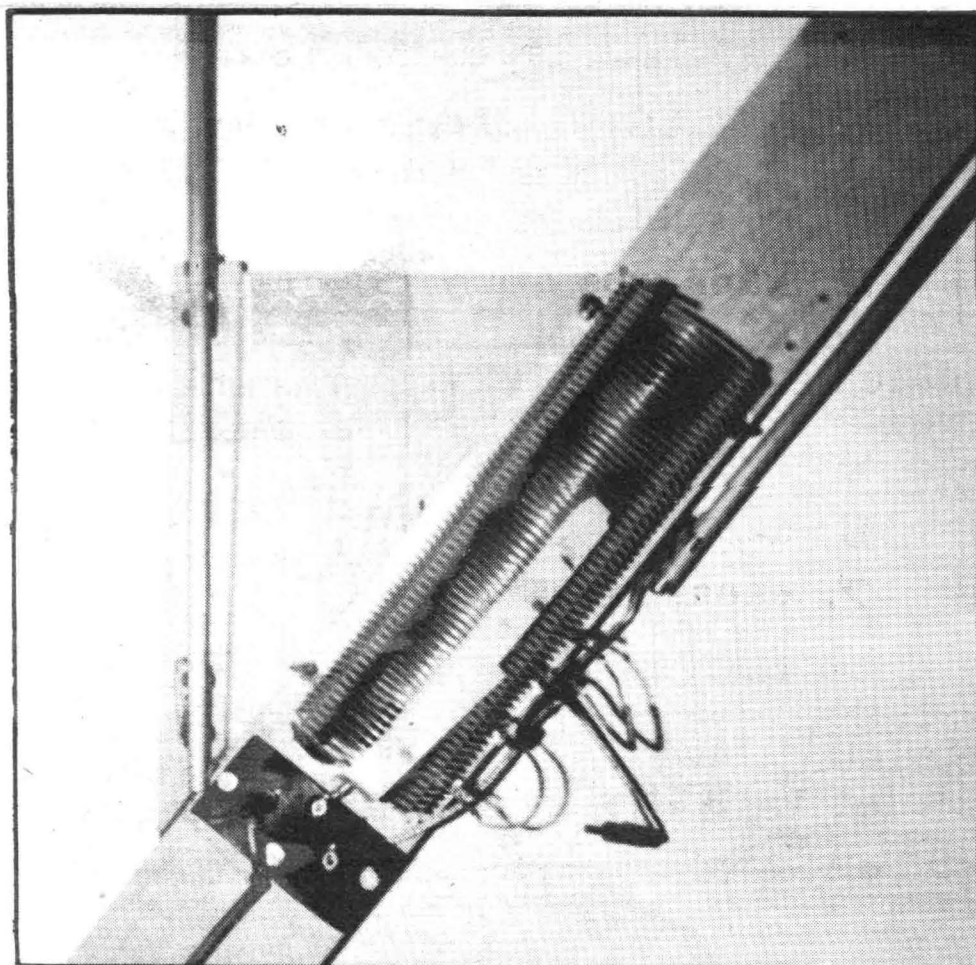
Considering its relatively small size and its unorthodox appearance, the Apartment Dweller works very well. I have worked stations in every direction; the antenna does not seem to favor any one direction over any other, likely due in most part to its configuration. Signal reports are generally good, even when working DX stations during a contest.

If you need more information, or if you have questions, please send me an SASE, and I will try to answer them.

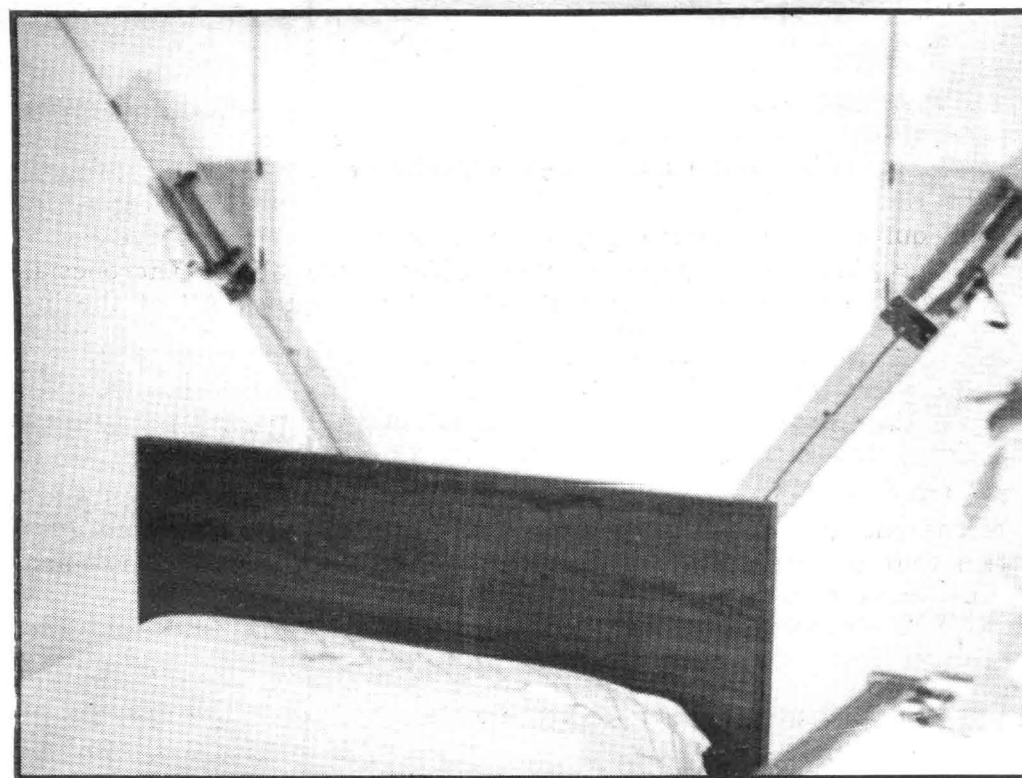
EDITOR'S NOTE: We suggest that, if you plan to build and use this indoor antenna, you first read the article "Is Amateur Radio Hazardous to our Health?", beginning on page 31 of the October, 1989, issue of QST.



The Apartment Dweller Antenna's foundation is a 36" x 36" x 5/8" thick piece of plywood.



One of the loading coils is shown here. The bakelite plate with banana jacks for changing bands is at lower left, and a ten meter element is at right. This is the right side of the assembly; the left side is identical.



This view shows most of the complete Apartment Dweller Antenna. Not visible are the 8 foot sections of braid, removed from old coaxial cable. As noted elsewhere, this antenna may be easily modified to operate on the WARC bands. Like all shortened indoor antennas, the Apartment Dweller is a compromise, but it does perform very well. Harv Hamer, K9YHO, the designer of the antenna and author of this article, would like to hear from other builders of the Apartment Dweller. If you write to Harv about this antenna, be sure to include a self addressed, stamped envelope.

- Photos by Harv Hamer, K9YHO

Yes -- It is A-O-K on Kosrae

By Nancy Vander Velde, AA6EA
940 Arbolado Road, Santa Barbara, CA 93103

NUMBER 4 IN A SERIES ABOUT COMMUNICATIONS AND
OTHER THINGS IN MICRONESIA, FROM MICRONESIA

At the Kosrae International Airport, there is a public telephone. To travelers from the United States, such a sight may not seem to be remarkable but, in Micronesia, public phones are often too few and far between, and their performance makes their existences of questionable value. Additionally, no phone lines are visible leading to the Kosraean telephone terminal, which is miles and miles out of town. So, does this phone work? Yes, this is just one case of things that are a-o-k on Kosrae.

The phones in the more out of the way sites on this steep-cliffed island are "rural phones". This is a full duplex VHF system that not only is an efficient means of communication, but prevents the spectacular landscape from being marred by unsightly poles and wires. These rural phones, as well as the regular phone lines that are found in greater abundance around the Lelu/Tofol capital area, are all controlled by a surprisingly large, and very neat, communications office. The equipment may be slick and modern looking, but a home town friendliness is maintained. The operator can still track down a person, even if they are not near their regular phone number.

Not too far from the communications office in Tofol is the Kosrae state-run AM radio station, WTFL, broadcasting at 1500 KHz in both English and Kosraean. On Kosrae itself, the quality of transmission is "mwona", (good), but since it is only a low power station, any time after the sun sets over Hawaii, the Kosraean station has difficulty reaching any place distant. Honolulu's big easy-listening station, KUMU, is also licensed for 1500 KHz, and its tremendous wattage can effectively squash any signal from tiny Kosrae. But, for an island of only 7,000 people to have its own language station at all is, yes, a-o-k.

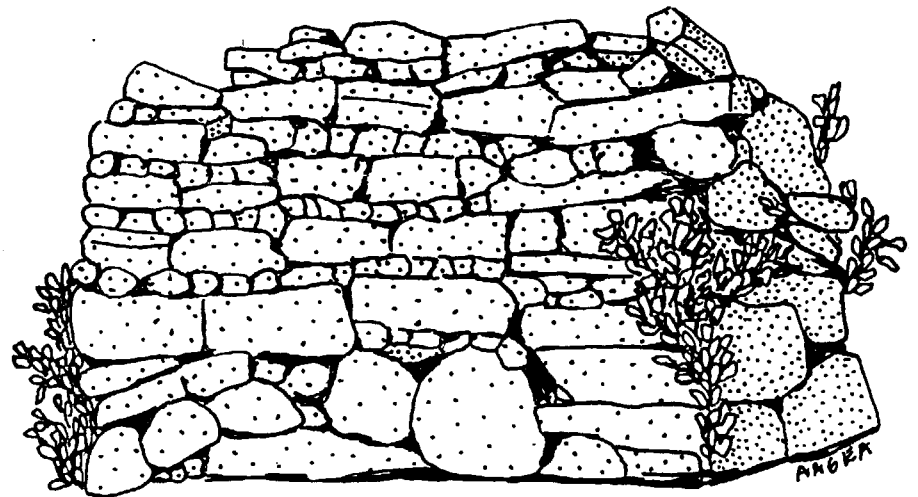
And, ham radio is equally, yes, a-o-k on Kosrae. In proportion with the limited population of the state, the number of amateur radio operators is about what one would expect. In addition to resident radio set-ups, since Kosrae is a popular sailboat stop-over spot, quite a few "marine mobile" calls drift through every year.

One thing from which Kosrae suffers, like all of Micronesia, however, is the lack of a consistent spelling system. All of the indigenous tongues were spoken long before the advent of Western men and their alphabet. These "lettered" people subsequently put themselves to the task of representing non-European sounds with European symbols. That is why "Kosrae" will often be written "Kusaie" on older maps, and the capital and ruins of the ancient city of "Lelu" is also spelled "Lelah" or "Lele", depending upon the mood of the one who does the spelling. Can't anyone come up with a system that is consistent and can be spelled out the same way each time, as is done in radio's international phonetics?

Yes, that would be aok, or a-o-k, (or alpha-oscar-kilo). In Kosraean, "yes" is consistently spelled "a-o-k", and is actually pronounced as it is spelled (aow-k). And a concerted effort is being put forth by linguists throughout the Pacific to standardize spelling. But, yes, aok, it is really only the outsiders who have trouble with the variable spellings. Kosraeans have always called their home "Kosrae", regardless if others wrote "Kusaie".

And, yes, aok, is English all that much better? Is it completely a-o-k? Well, take that term, an interjection of recent origins, coming to us a by-product of modern American colloquialism and popularized by the space program, (so no fair trying to put the blame on some Middle English speaking, semi-educated poet who died 600 years ago). "A", appears to be from "all" or "A-1", "top-quality", that is understandable.... but "OK" is, according to most linguists, to be an abbreviation from "Oll Korrekt"! Who can't spell?

Even the "great white fathers" who determine the world's call signs have trouble with how to spell things in Micronesia. Until re-



Stone ruins of the ancient royal city of Lelu, Kosrae are surrounded by the modern town.

cently, the Federated States of Micronesia, of which Kosrae is one of the four states, was "KC6—" calls, but that is also under transition. Now, "V76—" is more accurate. So, don't complain about Micronesian spelling - just enjoy it.

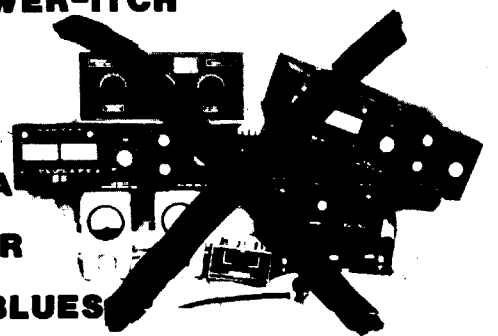
Radio communications and inconsistent spelling - both seemingly opposites in the refined discipline of conveying information from one person to another. Perhaps in some places, that is, they could be opposite. But just as the public phone at the Kosrae International Airport, with no visible wires leading to it, (and not even a place to deposit a dime), may seem to uninformed outsiders as if it should not work, the same with the "creative" spelling system. They do the job, that is what is important. On the Micronesian Island State of Kosrae, both types of communications are, yes, aok, a-o-k.

Len Mwo a Itnguhul-tolu
(Good Day and Seventy-Three)

JANUARY 4, 1983

A CURE WAS FOUND FOR THESE DISEASES :

1. REFLECTED POWER-ITCH
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3. QRM-DEAFNESS
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6. SUPER TUNER-BLUES
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THE BOTTOM LINE: "MAXCOM WORKS" *****

Diego Garcia-Via Waunakee, Korea and Madison

By Russ Fleming, WB9NYG/WC9AAG/VQ9RF
5576 Auchter Lane, Route 3, Waunakee, WI 53597

From the editor: When I learned that Russ Fleming, WB9NYG, had operated recently from the island of Diego Garcia in the Indian Ocean, I asked him to write a story about the operation. Russ was there to relieve a ship's radio officer for two months. The story that follows is the story Russ wrote. While it's lengthy, and deals only in part with his Diego Garcia adventure, the story is much too interesting to be shortened. What follows is the first half of the story; part 2 will appear next month. Read on, and learn about one Radio Amateur's most interesting life.

It may help to put this article about my operation of VQ9RF from Diego Garcia in better perspective if I go back a few years in my radio history, as people have been asking "How in the world did you ever get that job as Radio Officer on a ship in the Indian Ocean, and how did you qualify?"

I enlisted in the U.S. Navy in January, 1944, during World War II. After boot camp, I went to Aviation School at the Naval Air Technical Training Center at Memphis, Tennessee. After training in aerial gunnery school in Hollywood, Florida, I got my wings as an Aviation Radio Gunner, flying in TBF Torpedo planes out of Fort Lauderdale, Fla. After that, I spent seven months flying off the carrier USS Bennington (CV-20) in the South Pacific. Needless to say, during the war we were on radio silence, and I never sent one message during my 2 1/2 years in the Navy.

After a couple of years at the University of Wisconsin in Madison on the G.I. Bill, I went to Los Angeles in 1948. When the Korean War started, there was an extreme shortage of Radio Officers to sail on the ships. I graduated from Western Radio and Television Institute in Los Angeles, and passed my Second Class Telegraph license examination, which qualified me as a Radio Officer. I sailed for four years on Military Sea Transportation Service (MATs) tankers, mostly on the Persian Gulf run, hauling JP-4 jet fuel to Korea and around the Pacific. I quit sailing in 1954, when I met my bride-to-be from Waunakee while I was home on leave.

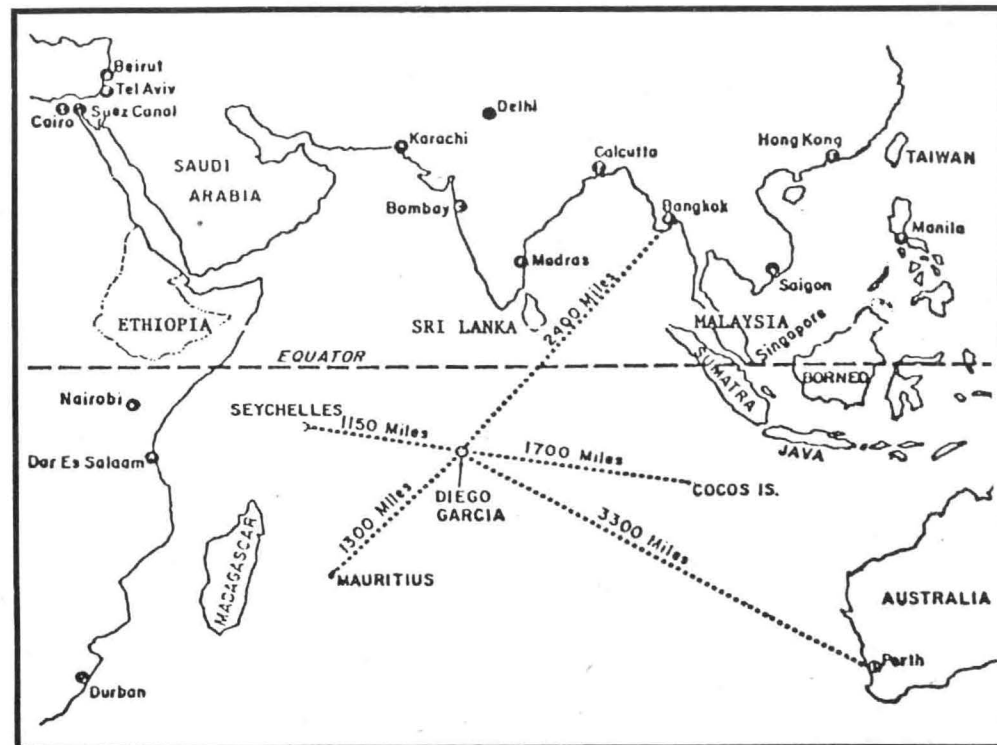
When the Wisconsin Legislature increased the Wisconsin State Patrol from 70 to 250 officers in 1955, I was selected to go to the first training class at the Academy at Camp McCoy in October of that year. After a couple of years pounding the pavement as a State Trooper, an opening for a CW operator came up in the Radio Room at State Patrol Headquarters. I was promoted to a State Radio Supervisor, and pounded brass for 5 1/2 years in the Wilson Street Office Building. Some of the other operators there included John LaBlonde, W9FZC; Wilbur Jensen, W9JEK; and Frank McNally, W9NLA.

In those days, all police traffic regarding wanted persons, license checks, etc. was passed between all the states by police radiotelegraph. After Ma Bell got the monopoly of teletype® and had legislation passed in most states to require all counties to install the Law Enforcement Teletype® Service, it put a lot of brass pounders out of work.

I took a few promotions, and after 13 years with the State Patrol (the last position as Chief of Planning and Records), I was named Deputy State Highway Safety Coordinator in the office of Governor Warren Knowles. After five years, I returned to the Department of Transportation, during Governor Patrick Lucey's administration.

During my remaining 16 years in state service, I acquired my Amateur Radio license (WB9NYG), and was also named State RACES Officer, with the call WC9AAG. I donated my lunch hours (when I didn't have meetings) to Emergency Government, and ran their RACES station.

During all those years, I kept renewing my First Class Radiotelegraph license with the FCC every five years. Of course, I had my six months service endorsement on American flag vessels on the license, which is required to take a ship to sea in international wa-

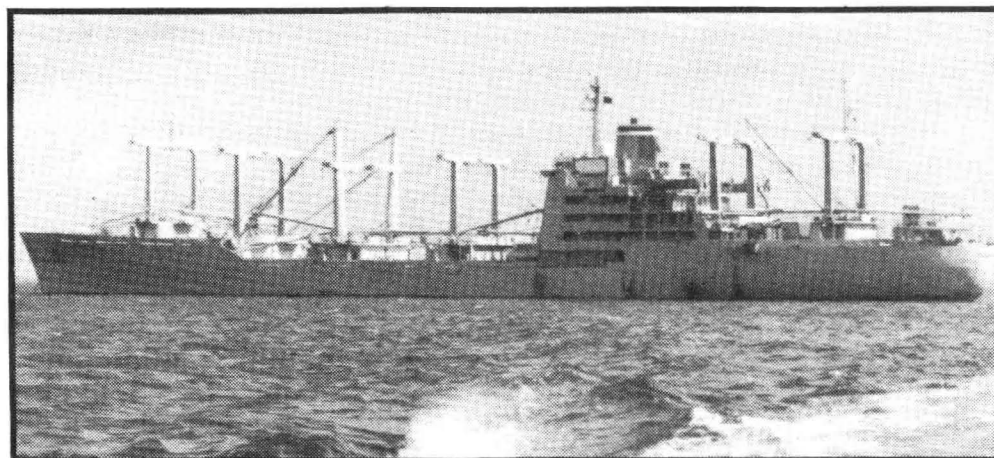


Diego Garcia is in the Indian Ocean, and is a long way from any major land mass.

ters by yourself. My Coast Guard Officer's license had expired 'way back in 1955.

On January 8, 1988, I retired from state service with 34 years and bought my motor home, and have been enjoying traveling and hamming. The XYL thought it would be neat if I got a part-time job (to get out from beneath her feet).

One day last March, I had a long QSO with a Japanese ham on ten meters. I had discussed the many Japanese ports I had been in, and told him I was a Radio Officer many years ago. When I signed with the Japanese ham, Bob Shreve, N4HN, in Miami, broke in. He had been reading the mail, and he told me there was a shortage of relief operators as Radio Officers for vacations. He said that if my First Class Radiotelegraph license was still valid, I should call the Radio Officers' Union in Panama City, Florida, and volunteer to relieve an officer for a month or two. I called the Union, and they told me I needed to renew my Coast Guard Officer's license and, when I did, they would be glad to place me on a ship.



Russ served as a relief radio operator aboard this ship, the S.S. Santa Victoria. It is an ammunition ship, and is fully loaded with bombs.

(The second half of Russ' story will appear next month.)

New Products

MFJ-1292 "PICTURE PERFECT" VIDEO
DIGITIZER FOR IBM™ COMPATIBLES



MFJ Enterprises, Inc. announces the release of the new MFJ-1292 "Picture Perfect" Video Digitizer for IBM™ compatible computers for only \$199.95.

The MFJ-1292 gives you an easy-to-install expansion card for your IBM™ or compatible computer. It lets you plug a camcorder or video camera into your computer and use it to instantly capture digitized video snapshots on floppy or hard disks. You can display these digitized video snapshots on your computer screen, or use your drawing or paint program to add lettering, color or other graphics or enhancements to your pictures. Included software lets you create pictures in VGA, EGA, CGA, Hercules or Raw Data formats.

The resolution of the pictures is as good as your computer. On a VGA computer, your pictures are virtually the same as high-quality photographs. Even CGA pictures digitized with the MFJ-1292 have good graphic quality that you'll be proud to show off.

You can use your MFJ-1278, MFJ-1270B, MFJ-1274, or most other packet radio controllers, along with included MFJ-XFER picture passing software, to transmit your digitized snapshots to your ham buddies via packet radio.

The MFJ-1292 "Picture Perfect" Video Digitizer comes with a complete software package plus utilities. You get a program that lets you capture digitized snapshots in VGA, EGA, CGA, Hercules, or Raw Data formats. You also get a program that lets you view your pictures, a program that lets you capture graphics from your screen into the MFJ-1292 format, a program that lets you convert graphics files to MFJ-1292 format, and a program that lets you transmit your digitized snapshot files to your ham buddies with your MFJ-1278 or other packet radio controller.

As an added bonus, you get a handy Contrast and Brightness control unit that

you can conveniently place near your keyboard for fine-tuning your pictures.

For more information, contact any MFJ dealer, or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762, or call (601) 323-5869; Telex 53 4590 MFJ STKV; FAX: (601) 323-6551, or order toll free at (800) 647-1800.

The photo above is of Aimee, from the MFJ order desk. This unretouched photo was shot directly from a VGA computer screen. Aimee was digitized with a camcorder, MFJ-1292 "Picture Perfect" Video Digitizer, and IBM™ compatible computer.

- MFJ news release

ICOM IC-1275A 1200 MHz ALL MODE BASE STATION

The new age of 1200 MHz has arrived, and leading the way is the sophisticated IC-1275A, a remarkable new 1200 MHz all mode base station with the most asked-for features.

ALL MODE CAPABILITY: The IC-1275A is equipped with USB, LSB, CW, FM, and AM modes. You can even operate packet!

DIRECT DIGITAL SYNTHESIZER: An innovative PLL system designed to meet the high speed lockup times required for packet. The new DDS system ensures overall PLL lockup times of less than 5 msec.!

STABLE 10 WATTS OF OUTPUT POWER: The IC-1275A puts out a full 10 watts on high power, and one watt on low power.

NOISE BLANKER: The IC-1275A includes an advanced noise blanker circuit to eliminate pulse type noise and provide clear reception.

99 MEMORY CHANNELS: Featuring 99 memory channels, the IC-1275A allows you to store all your favorite channels.

VERSATILE SCAN FUNCTIONS: The multiple scan functions include memory scan, selected mode memory scan, memory skip scan, and programmed scan.

The IC-1275A is a superb transceiver for serious 1200 MHz explorers. This 1200 MHz transceiver also includes a CI-V buss for computer control, and is great for satellite operation. The IC-1275A 1200 MHz all mode base station will be available in December, 1989.

- ICOM news release



SSB
SELL SWAP BUY

OUR WANT ADS GET RESULTS

FOR SALE: KLM 2-Meter FM amplifier, model PA-15-80BL. New March 1986, less than 50 hours use. Size: 8 x 7 x 2. 15 watts in, 80 watts out; 10 watts in, 60 watts out. Has on-off-temp. control, pilot lights. \$100.00. Bob Baird, W9NN, Plover, WI. 715/341-4647.

WANTED: Manual or copy of manual for BC-348H receiver. Jim Romelfanger, K9ZZ, 412 1/2 Ash St., Baraboo, WI 53913.

Part 97 Rules Covering International Radiocommunications

The FCC has issued a Public Notice concerning communication with amateurs in foreign countries. Here is a recap:

*** Permissible countries:** Section 97.111 states when the administration of a country objects to its amateurs contacting U.S. hams, it becomes a "banned country." Currently, there are no banned countries.

*** Prohibited transmissions:** Section 97.113 says that communications for the purpose of facilitating the business or commercial affairs of any party is prohibited. Use of amateur communications as an alternative to other broadcast, common carrier, maritime, land mobile, or other authorized radio services is also prohibited.

*** Third-Party arrangements:** Section 97.115 "...authorizes an amateur station licensed by the FCC to transmit messages for a third party to any amateur station within the jurisdiction of a foreign government whose administration has made arrangements with the United States to allow amateur stations to be used for transmitting international communications on behalf of third parties."

Countries that have made the necessary arrangements with the U.S. to permit third-party messages are:

Antigua and Barbuda	Argentina
Australia	Belize
Bolivia	Brazil
Canada	Chile
Colombia	Costa Rica
Cuba	Dominica
Dominican Republic	Ecuador
El Salvador	The Gambia
Ghana	Grenada
Guatemala	Guyana
Haiti	Honduras
Israel	Jamaica
Jordan	Liberia
Mexico	Nicaragua
Panama	Paraguay
Peru	St. Christopher and Nevis
St. Lucia	Swaziland
St. Vincent and the Grenadines	
Sierra Leone	
Trinidad and Tobago	
United Kingdom (special event stations with call sign prefix GB followed by a number other than 3)	
Uruguay	Venezuela

United Nations stations 4U1ITU in Geneva, Switzerland, and 4U1VIC in Vienna, Austria, have also made arrangements with the U.S. to permit third-party communications.

- The ARRL Letter

Wisconsin Nets Association Ltd.

(Continued from page 4)

Well, enough on my soap box. Here is some info that you can use in some trivia contest sometime. Our top ten for the quarter is as follows:

N9BDL	86	W9CBE	83
W9YCV	82	W9NGP	47
W9CXY	43	KA9FVX	42
WB9ICH, AD9X, W9KLN			39
N9IAI	37	K9GDF	36
AG9G	21		

I hope that some of you will come down and join us on 3.662 MHz and give us a hand, because we sometimes have plenty of traffic for everyone. We would appreciate any help you can give us, even if you can take the traffic and put it out on packet or whatever. Come on in and have some fun and handle traffic at the same time.

I guess for now that is about all we have for this time out. I hope to see a few of you down on the old CW bands, and keep up that WINning spirit.

73, and good trafficking,

Larry, WB9ICH

WISCONSIN INTRASTATE NET/LATE (WIN/L)

Ed Rice, W9NGP, Net Manager
W-126 Lang Road
Oconomowoc, WI 53066

Business is holding nearly steady on the Late WIN. The 3rd quarter of the year is usually the slowest period for the traffic nets. The following table compares the 3rd quarter totals for 1988 and 1989:

	1988	1989
QNI	454	488
QTC	189	163
QSP	125	126
QTR	1149	1046

I am pleased to welcome Dean, KF8AU, as a regular checker-inner on the 2200 club. A certificate is in the mail.

Les, W9YCV, has the most QNI, with a total of 81 for the quarter. And, W9CXY went the most times to 9RN, with 32.

73, Ed

Where's the Beam?

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WNA MEETING

September 9, 1989

Pittsville, Wisconsin

The Chairman, WA9W, called the meeting to order at 1:15 p.m. A signup sheet was passed around. Members present:

WA9W	KA9KLZ	W9CBE	WG9J
NS9Q	W9NGP	K9UTQ	KA9BAE
K9GU	KY9P	W9IEM	N9IAI
KE9LX	W9TQD	AG9G	N6MLW
WB9YPY	W9IHW	WC9O	K9LGU
KC9CJ	N9BDL	K9FHL	

The Secretary, KA9KLZ, read the minutes of the previous meeting. A motion (N9BDL/K9FHL) was made to accept the minutes as read. Motion carried.

The Chairman called for nominations for new officers. WG9J nominated WA9W for Chairman. A motion was made (WG9J/-N9BDL) to close nominations. Motion carried. WA9W was elected by acclamation.

K9FHL nominated KA9KLZ for secretary. A motion was made (N9IAI/N9BDL) to close nominations. Motion carried. KA9KLZ was elected by acclamation.

K9LGU nominated W9CBE for treasurer. A motion was made (WB9YPY/K9FHL) to close nominations. Motion carried. W9CBE was elected by acclamation.

OLD BUSINESS

W9CBE inquired about having the WNA minutes published in BSSS.

TREASURER'S REPORT

Hale, W9CBE, gave the treasurer's report:

Previous balance	\$238.77
Expenses (BSSS and Sec. supplies)	46.80
Receipts (Boosters)	28.00
Balance on hand (9/9/89)	219.97

A motion was made (N9BDL/KC9CJ) to accept the treasurer's report. Motion carried.

NEW BUSINESS

A Certificate of Merit was presented to Harold Ferguson, W9IEM. Fergie expressed his appreciation. Well done, Fergie.

CHAIRMAN'S REPORT

Greg said that hopefully some of his health problems were over and he expects to be more active.

SECTION MANAGER'S REPORT

Rich, K9GDF, was not present.

SECTION TRAFFIC MANAGER'S REPORT

Dick, KC9CJ, commented that many other people are doing a good job on the nets, as well as Fergie, and we need to get more people involved. Any suggestion to get people involved would be appreciated. There were several comments and suggestions offered.

SECTION EMERGENCY COORDINATOR'S REPORT

Fred, W9ZAG, SEC, nor Sherm, W9-NGT, Assistant SEC, were present.

NET REPORTS

BADGER WEATHER NET: Jim, WB9-YPY, BWN delegate, gave the report. Jim said that the net was doing well, and getting new members.

BADGER EMERGENCY NET: Greg, WA9W, BEN N/M, gave the report. Greg said that the net was doing better, but needs net controls and 9RN reps.

NORTHWOODS TRAFFIC NET: Mary, NS9Q, NWTN N/M, gave the report. Mary said that the net was doing good, and expressed her compliments to the net control stations and net members.

WISCONSIN SLOW SPEED NET: Lee, N9BDL, WSSN N/M, gave the report. Lee said that checkins were up and traffic passed was up 16%. Lee said that AG9G finally missed a net that he was scheduled to NCS.

WISCONSIN INTRASTATE NET/LATE: Ed, W9NGP, WIN/L N/M, gave the report. Ed said that the net is doing about the same, and thanks all of the net control stations for doing a good job.

WISCONSIN INTRASTATE NET/EARLY: Larry, WB9ICH, WIN/E N/M, gave the report. Larry said that the net is doing good, but needs 9RN reps and SSB net liaisons.

WISCONSIN NOVICE NET: The N/M and delegates were absent, so Lee, N9BDL, gave the report. Lee said that Adrian, KA9FVX, is now the N/M for WNN. The checkins and traffic are about the same for the net.

WISCONSIN SIDEBAND NET: Gene, K9UTQ, WSBN N/M, gave the report. Gene said the net was doing about the same. Traffic and checkins are picking up with the fall season. Net controls are needed for Monday, Wednesday, and Saturday.

TRAFFIC HANDLER AWARDS

Denny, K9LGU, presented awards to W9CBE, KC9CJ, and WB9YPY. W9CBE received a plaque for the Top Traffic Handler for 1988. WB9YPY received an endorsement for handling over 21,000 pieces of traffic. KC9CJ received an endorsement for handling over 7,000 pieces of traffic. The winners were congratulated by the Chairman, and a round of applause was given by all present.

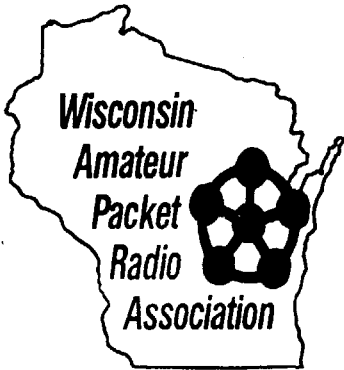
Lee, N9BDL, thanked Roy, K9FHL, for faithfully checking into the WSBN every evening.

Hale, W9CBE, offered a vote of thanks to Gene, K9UTQ, for providing the refreshments for the meeting.

Greg, WA9W, offered a vote of thanks to Roy, K9FHL, for providing the prizes for the meeting.

The Chairman called for a motion (K9-FHL/N9IAI) to adjourn. Motion carried. The meeting was adjourned at 1:59 p.m., September 9, 1989.

Respectfully submitted,
Art Evans, KA9KLZ, WNA Secretary



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

c/o CARL SCHUMACHER, N9BYS
7740 EVERGREEN TERRACE
BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

The following is a financial statement of WAPR for September 1989:

Income			
Dues	\$125.00		
		Total	\$125.00
Expenses			
Postage	\$5.00		
		Total	\$5.00
		Net for Month	\$120.00
		Cash on hand	\$178.23
		Bank Balance	\$1397.54
		Net Balance	\$1575.77

Respectfully Submitted
Carl Schumacher N9BYS
Treasurer - WAPR

MORE ON BULLETIN BOARDS

Over the previous two months we have covered MSYS commands, and node commands. I hope that you have been able to make use of the material thus far, and that it has made your life as a user much more comfortable.

A majority of the BBS stations here in Wisconsin are running MSYS, or RLI version xxx (there's a new one every few weeks, it seems), and the rest being made up of MBL and various other programs. The discussion this month, and in the coming months, will deal mainly with the two major programs and how they FORWARD your mail, personal messages, NTS traffic, and Bulletins - - and how you may address them as the originator so that they move effortlessly thru the packet system to their destination(s).

The two programs, MSYS and RLI, both adhere to the HFS, Hierarchical Forwarding System, architecture which allows them to forward automatically by examining the "@" field and then deciding how previous traffic for that designator was handled, and to take the appropriate action. Past experience may be in the form of either a "forwarding index file" placed in the computer by the Sysop, or by how the program passed along the material for that call, or state, or NTS traffic, or bulletin in the past - - at times setup by the Sysop previously. MBL, on the other hand, looks at the "@" field, and then looks for the match in a forwarding file at the BBS. The headers should have the necessary material in them as to the addressee that they will be forwarded AUTOMATICALLY to their destination, whether that be at the same BBS, across town, across the state, or

nation, or to a foreign address (PLEASE - - remember the "THIRD PARTY AGREEMENTS" when sending messages to a third party at a foreign address - - one that will be passed on to a non-ham - - PLEASE - - do NOT make the Sysop at your BBS be the "policeman" by having him determine if the message is in violation of "Third Party Agreements. For further edification, clarification, and just plain reading fun, I refer you to "US Amateur Regulations, 97.114").).

This month - let's deal with the most commonly used type of message, the "Private" message. The only thing private about them is that they may be read, deleted, or corrected ONLY by the party originating them, or the party receiving them, OR - - by any of the Sysops along the route of their journey. They actually are not too private, as they may be read by anyone with a TNC and terminal (and radio) as they wing their way across the network. It would be prudent to CAREFULLY edit what you say in them. ..

All messages have (for our purposes here) three very distinct parts of the HEADER (that portion of the message that tells the computer / sysop / interested parties the WHO, WHAT, WHEN, WHERE, and HOW of the message). Besides the date it went thru a certain BBS on its' way to you, it may even list the time it cleared that BBS, and the call of the BBS as well as the zip of that BBS. Also listed will be the BID# of that message, the one assigned to that particular message by the BBS so that it may be indexed, passed along, referenced, deleted, and all the other internal working that go on inside the computer and the BBS program.

One of the three parts (above) is supplied by the BBS that you post the message on - - it will be the "FROM" field - - and is gleaned from the "connect" by you to the BBS you will deposit your message on.

You have to supply the remainder of the parts - - "TQ", and "@".

"TO" should be self-explanatory - - whom are you sending this to ??

For "private" messages, you would supply the CALL of the station you want to get the message. The "@" field would be the call of the BBS where your intended recipient NORMALLY gets his/her mail.

All of this is prefixed by either "S", for "send", or "SP", for "send private" - - MSYS makes no distinction between the two, as they are both made into private mail, but other programs will make the distinction and the plain-vanilla "S" means that the message is fair game for anyone who wants to edit it, read it, delete it, etc.

7) An example: `00SP00000000@KC9BK` - is you are
boring to email

sending a "private message" to WK9K who normally gets his/her mail at KC9BK. The computer will add the rest of the header material as it gets posted at the BBS. Please don't forget the spaces as shown in the example - - and end it with a <CR> (carriage return) to send it along to the BBS.

Another "helper" that will nearly insure that your message gets headed out in the proper direction, especially if going out-of-state, would be to put in the "@" field some extra goodies that are used by the hierarchical forwarding scheme. These are the STATE, COUNTRY, and CONTINENT (no joke) of the BBS of the recipient. Some of the BBS programs will examine the "@" field for the presence of these designators, or directors, and AUTOROUTE the message accordingly.

To utilize this method, when you type the "SP WK9K @ KC9BK", you would ADD some information to the "@" field, as, "SP WK9K @ KC9BK.WI.USA.NA". Now you have added the state to forward it to, the country that it is located in, and the continent. For U.S. work, as in sending a message to a BBS located in East Overshoe, Illinois, a simple ".IL" immediately after the BBS call should suffice. Please note that the separator for the various items is NOT a space, but, rather a PERIOD. All the STATE DESIGNATORS used are the 2-LETTER form as normally found in either the Callbook, the ARRL Operator's Manual, or the Zip Code Directory at the U.S. Post Office. Watch out for the "tricky ones", like MAINE, etc.

The next prompt will ask for the "SUBJECT" of the message. Make it as short as possible (Most programs will stop reading this area after 38 characters - - most TNCs will shut it off there also.) Also, if this is going to a BBS that is NOT local, or known to your friendly Sysop (a note to him to query him will bring fantastic results !!), this "subject" field is an excellent place to insert the name of the town, state, and zip of the recipient. To add to the example above, when asked for the "subject", type: SHOREWOOD, WI 53217. A very proper way to do that would be to use the "Q" code - - "QTC" which means "I have _____ messages for ____". Thus, the form would be: QTC1 Shorewood, WI 53217. That equates out to "I have one message for Shorewood, WI 53217. That will give the sysop who is NOT running an AUTOFORWARDING BBS that uses a MASTER LIST of BBS STATIONS put out quarterly by W9ZRX, a clue as to WHERE the message is going - - and HOW TO ROUTE IT THERE. This also helps when the BBS you are sending the message to (eventually) is new, or has not been listed with W9ZRX. It will save many hours of work by the

Sysop in trying to pour through outdated call-books, ask other sysops, or guess that KC9BK is located somewhere in the 9-land call area, comprising several states, assuming that he has NOT relocated somewhere close to Phoenix, Arizona at one of those retirement villages, and retained his 9-land call !!!

After entering the material in the "SUBJECT" field as above and sending it to the BBS with a <CR>, you will be asked for the text you wish to send. A few pointers here....

FIRST, no real need to abbreviate much as you did with CW or with RTTY. Packets are zipped along at 1200 to 9600 baud on the VHF / UHF routes, so they take very little time to get transmitted and received. The HF portion(s) of the route will be sent at 300 baud (at the present).

SECOND - - AND VERY IMPORTANT (!!!) - - KEEP THE LINE LENGTH BELOW 80 CHARACTERS - - PLEASE !!! (If you are working a station that is running a computer that prints out 40 character lines, you may want to keep the line length at 40 characters so as to make it more readable at his/her end.) The BBS you connect to will NOT automatically send it out at 80 character line-lengths - - that is your responsibility !!! ALSO - - NO CONTROL CHARACTERS !!! If you have any doubts as to what your message looks like, READ your message immediately after it has been sent to your BBS - - If it doesn't look right - - KILL IT, and start all over again.

THIRD - - Please be aware that there are some BBS stations your packet may pass through on the journey that have placed a LIMIT on the total length of the packets they will handle !! This may be a total length of 5000 bytes, 3000 bytes, or, as seen in a recent blurb out of California (apparently in an attempt to shut off the flow of bulletins from a certain user group), a total length of 2000 bytes !! (We here at WAPR are not aware of any limits here in Wisconsin - - nor are we aware of any BBS stations "shutting out" any user - - nor are we aware of any "editing" going on by the Sysops EXCEPT in the case of blatant "HATE-MAIL", obscenities, or BUSINESS mail.) If you are sending out a message that parallels "The Rise and Fall of The Third Reich" in length, please break it up and send it out in small, separate messages - - 3000, or so, bytes.

Lastly - - when you sign the message, put your CALL and the BBS you are expecting a return at after your name, as: Jim, W9XYZ @ K2FYI.

It should go without saying that packet is AMATEUR RADIO - - and that means NO BUSINESS may be conducted via the amateur bands. Business traffic has been defined by the FCC as any transmission or communication the purpose of which is to facilitate the regular business or commercial affairs of any party [97.3(bb)]. There has been a lot of traffic about "For Sale" messages recently where hams are selling things via packet. Apparently, and you will have to verify this yourself, the selling of used personal amateur gear over packet does NOT constitute a "business" communication, however, the selling of your home over packet, as was recently attempted by a gentleman in Phoenix, was - - and IS - - construed to be a BUSINESS communication. I suggest you contact either the FCC, the ARRL or your personal attorney before getting into that quagmire!!

It also should go without saying that you will conduct yourselves as Gentlemen and Ladies - - Please remember that the station you are passing your traffic through is the property of the person who has the callsign of that BBS, and, as such, he or she has the right (and the responsibility) to edit, cut, or send just what he or she desires - - keep the language out of the gutter !!! (If you are into "that type of thing", I direct you to the upper edge of the 75 Meter phone band where you may experience that type of LID operation, AD NAUSEAM.)

There is the summary of sending "Private Messages" via packet. The first two articles (previous two months) dealt with the commands of MSYS, and the NODES and how to use them. This months article was rather VERY BASIC, but hope it had a few points to sharpen your skills in the use of packet radio.

Just in time for the Christmas greetings you will be sending, next month's article will deal with NTS traffic - - how to put them together, some of the shorthand, how to send them (those funny hyroglyphics in the first line), and how to pass them along for your BBS. That should arrive just in time for all the holiday greetings you'll be sending.

After that, we'll examine BULLETINS - - how to get them on the air, and how to get them into the hands of the people you want to read them. We'll also touch on getting out those "DX bulletins" you see racing across your screen. PARAMETER settings, and TCP/IP will go after the first of the Year.

Any suggestions for future articles or queries (or corrections - - my pencils are all equipped with erasers on one end) should be directed to Dan Bolander, WB9TYT @ WB9TYT.WI.USA.NA (see how that works ??)

If you are unsure of what to do next - - or, first, for that matter - - contact your friendly Sysop! (My old father used to tell me that "two heads were better than one, even if one was a cabbage!")

=====

from: WB8KWC@WB8ICL
to: ALL@ARRL
subject: ARRL 80: part 97 & station i.d.

ARRL BULLETIN 80 ARLB080
October 24, 1989

Attention contesters. Many amateurs have been confused by part 97.119, paragraph a, of the new part 97 rules concerning station identification. The question arises when operating at the location of another station. The FCC has indicated two acceptable procedures.

First, another amateur may be designated control operator of your station. That amateur would identify with your station call sign and operate within the privileges of your license.

Second, you may loan your station to another amateur. the equipment becomes that amateurs temporary station. The amateur is then the licensee, signs with his call and operates within the privileges of his license class. For example, in a contest an amateur operating from someone elses station may sign his own call sign.

License Fees

(continued from page 19)

Opposition Builds in Senate

Senator Levin pointed out that the Senate Commerce Committee did not include other non-profit organizations, such as special emergency and public safety groups and public broadcasters in their fee schedule because of the public service they provide. He then came to the major thrust of his comments: "Mr. President, our Amateur Radio operators also provide an important public service, and we should not treat them any differently than we do other nonprofit service organizations."

Concluding his statement, he said "....I hope to be able to offer an amendment, when we take up the reconciliation bill, that will address these unfair fees on our Amateur Radio operators. I invite any interested colleagues to join me in this effort."

Melinda Loftin is the member of Senator Levin's staff who is handling the matter, including lining up co-sponsors.

ARRL Letter, published

by the American Radio Relay League



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WANTED: 1945-46 issues of CQ Magazine, and ARRL Repeater Directories, editions #1 thru 7, 12 and 14. Dennis G, Eksten, W9SS, 5066 N. Second St., Loves Park, IL 61111. (815) 877-6768.

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=====

THE TEST POINT - MINNESOTA TESTS

December 2, 1989 SPRC
December 9, 1989 ARA Bloomington

Contact:
ARA Bloomington, Art Putt, KD0CL 881-7181
SPRC, Mary Ketzler, KS0OMX 426-4438
Minneapolis ARC & Gopher ARC,
Jeff Kolb, WB5MTV 699-6861
Robbinsdale ARC, Ron Schultz, NA0U 920-7473

=====

Cross a porcupine with a sheep, and you'll have an animal that will knit its own sweater.

Yellow Thunder Amateur Radio Club



K90DK
WB9FDZ

Harry Westlund, K9EHJ,
Secretary
720 Jefferson Street
Baraboo, WI 53913

The november meeting of the Yellow Thunder Amateur Radio Club will be held on Wednesday, November 15, 1989, in room 25 of the Baraboo Civic Center. The meeting will start at 7:30 p.m. Business will include nomination of officers for the coming year. The program will be a talk on aircraft electrical systems.

The October 17th meeting of the Yellow Thunder Amateur Radio Club was called to order by President Duane Grotophorst, KA9HKL, at 8:13 p.m.

The following members and guests were present:

Duane Grotophorst, KA9HKL	Loganville
Art Kleefisch, W9WSS	Baraboo
Harry Westlund, K9EHJ	Baraboo
Jim Decker, WB9UQT	Baraboo
Harold Reif, KA9YQP	Baraboo
Dennis Sweeney	Portage
Bill Klinkner	Prairie du Sac
Ann Klinkner	Prairie du Sac
Marvin Kaiser	Lake Delton
Joey Sweeney	Portage
Steve Sorenson	Beloit
Bob McGinnis, KB9AP	Poynette
Dennis	Portage

The minutes of the last meeting were approved as published in the BS55 on a motion by Art Kleefisch, W9WSS, and seconded by Harold Reif, KA9YQP.

The Treasurers report was given by Jim Decker, WB9UQT, as: Operating balance \$340.10 with a total balance of \$374.67.

The President called for a round of self introduction so all present would know one another.

New business: The Novice class program was reviewed and it appears we will have about six (6) in the class.

Two programs were planned. Besides the usual nominations for officers in November, there

House Adopts Reconciliation Bill With Amateur License Fees

The House of Representatives and the Senate have passed different versions of the Reconciliation bill, and at the time this is written, it is in a joint House-Senate committee where compromise language is being written.

On October 5, the U.S. House of Representatives adopted H.R. 3299, the Omnibus Budget Reconciliation Act of 1989. A Schedule of Charges for the FCC is contained in Section 4701(a), "Update of Fee Schedule." The bill proposes to amend Section 8 of the Communications Act by adding a new subsection (g), which would include the following:

PRIVATE RADIO SERVICES

7. Amateur License

- License (per application) \$30.00
- Modification of License (per application) 30.00
- Renewal of License (per application) 30.00
- Reciprocal Permit for Alien Amateur License 30.00

will be a talk on "Aircraft electrical systems". The January meeting will be a talk on "A bio-technology overview". The "Buck Night" drawing was won by W9OXN, O. F. Warning, who was not present.

The meeting was adjourned at 9:03 p.m. on a motion by James Decker, WB9UQT and seconded by Art Kleefisch, W9WSS.

Respectfully submitted,
Harry Westlund, K9EHJ, Secretary

SENTENCE SERMON

I like a man proud of the place in which he lives. I like to see a man live so that his place will be proud of him.

--Abraham Lincoln

YIARC BIRTHDAZE

Wm. Hommel	KA9QFT	November 4
Orv Warning	W9OXN	November 14
Gary Pratt	WB9ECD	November 17
James Taylor	WA9GJV	November 21

- Renewal or Modification of Amateur Club, Races, or Military Recreation Station License 30.00
- Special Temporary Authority (Initial, Modifications, Extensions) 30.00
- Requests for Waiver
 - Routine (per request) 105.00
 - Nonroutine (per rules section/per station) 105.00

On the Senate side, at (ARRL Letter) press time, the Commerce Committee was preparing to introduce its version of the legislation for early floor action. The Senate version presently includes a \$35 fee for amateur license transactions. The American Radio Relay League's focus is on seeking an amendment on the Senate floor (see next story), to eliminate or reduce the fee in line with the policy adopted by the League's Board of Directors.

Radio Amateurs wanting to express their opposition to the Amateur Radio license fee should urge their Senators (in Wisconsin, Robert Kasten and Herb Kohl) to cosponsor such an amendment, and if the amendment succeeds, should urge their Congressman to support the Senate version in the Conference Committee.

The October 3 -Congressional Record- carries a statement by Senator Carl Levin of Michigan, expressing his opposition to proposed fees for Amateur Radio operators in H.R. 3299. In opening, Senator Levin said, "Mr. President, I have recently learned that the Commerce Committee has chosen to meet its reconciliation responsibilities, in part, by imposing unprecedented fees on our Amateur Radio operators. It is ironic that this proposal comes at a time when we have been able to witness the achievements of the Amateur Radio operators so prominently in our daily headlines." Senator Levin continued, "citing the 'absolutely priceless' information provided to the world by the amateur community in the aftermath of Hurricane Hugo.

The Senator went on to say, "Amateur radio operators.... are dedicated individuals who play valuable role for our Nation in public safety, disaster relief, and emergency communications for national defense, among other services.in times of need, Amateur Radio operators are transformed into a corps of highly trained public service communicators, who willingly work long hours as volunteers during disasters."

(continued on page 18)

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July 7, 1990

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South Milwaukee ARC PO Box 102
Milwaukee, WI 53172

Tri-County ARC Presents Fall-Fest 1989

Due to a busy club commitment schedule,
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